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CHEMISTRY REFERENCE

CHEMICAL PATENTS INDEX

A COMPREHENSIVE AND DETAILED INDEX OF THE SUBJECT MATTER OF SPECIFICATION AND CLAIMS OF UNITED STATES PATENTS AND PATENT REISSUES GRANTED DURING THE DECENNIAL PERIOD 1915-1924 INCLUSIVE, COVERING THE ENTIRE FIELD OF CHEMICAL TECHNOLOGY

COMPRISING

THE RAMIFICATIONS OF PATENTED INORGANIC AND ORGANIC CHEMICAL PROCESSES AND PRODUCTS AS APPLIED TO BIOLOGY, MICROSCOPY, BOTANY, MINERALOGY, PHARMACY, MEDICINE, PHOTOGRAPHY AND DYESTUFFS IN BOTH THE WARLIKE AND PEACEFUL ARTS

BY

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AUTHOR, "NITROCELLULOSE INDUSTRY," "CELLULOSE ACETATE," AND "TECHNOLOGY OF CELLULOSE ESTERS"

IN FIVE VOLUMES

VOLUME ONE

INDEX OF NAMES A-Z
INDEX OF SUBJECTS A-B

BOOK DEPARTMENT

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A. McN. MAY 2 '28

To

Those co-workers

Who by Their Inspiration, Counsel and Material
Assistance Have Made its Preparation Possible
This Work, in Grateful Appreciation
is

Affectionately Dedicated

Chemistry 21 My 28 Stechert v.1

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PREFATORY STATEMENT.

EVERY mental effort of inherent merit involving useful addition to the sum total of permanent human knowledge must have a definite aim and rest upon a fundamental basis.

The five volumes constituting this work and representing eleven years' uninterrupted labor of a small force is an attempt to cover in detail, by a line-upon-line index approximating seven hundred thousand entries, the chemical subject matter of all of the United States patents granted during the ten-year period January 1, 1915 to December 31, 1924 (U. S. Official Gazette, volumes 210 to 329 inclusive); being the 398,377 patents between the issued numbers 1,123,212 and 1,521,589, of which 22,882 separate patents have been indexed herein together with the re-issues which have been published during this time. It is intended adequately to cover the whole field of chemical technology—organic, inorganic, biological, mineralogical, pharmaceutical, photographic—thus comprehending from a patentability point of view the entire industrial chemical development in both the warlike and peaceful arts during this decennial period. In the index of patentees comprising the first portion of this volume, 14,526 names are recorded as sole or joint inventors.

No attempt has been made to edit, amplify, curtail, expurgate, interlineate, transpose or correct any statement appearing in the patents indexed for obvious legal reasons, the subject matter being indexed *as is* and without comment. In patent adjudication it repeatedly has been held by the Courts that the construction and intent of a specification must be judged by the actual published statements solely, *i. e.*, what the patentee *said*, and not what one of supposed superior knowledge might infer he intended to *mean*, and that the specification description must be stated with sufficient lucidity, exactitude and comprehensiveness so that "one skilled in the art to which the invention appertains" by following the description alone, may be able to obtain the result specified and/or claimed. The involved phraseology, obvious circumlocution, and deficiency in chemical knowledge apparent in the description of some inventions render their indexing in an intelligent and understanding manner a matter somewhat of guesswork. In such instances the context has been indexed as printed, and then again indexed the way we deduced the invention should read. This accounts, in a measure, for the extreme detail with which this Index has been subdivided.

The present litigation in respect to the aryl-substituted guanidines as rubber vulcanization accelerators is indicative of how exhaustive an index of this nature should be in order to become of maximum utility in anticipatory searches and searches involving alleged "lack of novelty" in a chemical process, or product, or both.

The method of preparation of this Index has been as follows: The description of each patent as printed in the Official Gazette was critically examined, and if it appeared from the statements therein that the patent might contain subject matter of a chemical nature, the patent was purchased. From this original patent, the chemicals and chemical manipulations and mechanical devices were indexed with sufficient completeness and fullness to cover apparently all of the chemical subject matter from any angle which might be sought, each item or line being placed on a separate card. These cards were then reviewed against the original patent. Instead of typing the patent number at the close of each line, the cards resulting from the indexing of each patent were rubber stamped with the patent number by means of

a numbering machine, it having been found nearly impossible to write the same number of seven figures several times without transposition or other error in figures. These cards were then thrown strictly alphabetically, the duplicates under one heading combined on a single card, and the cards then re-typed introducing dashes, instead of phrases represented between adjacent commas. By the substitution of dashes instead of words and phrases, the bulk of this work has been reduced by about 1260 pages without contraction of statement. This formed the original manuscript which was then re-read against the individual cards. In preparing the original cards (3″ x 8″ in size), they were typed by being fed continuously into a typewriter at distances of about ½ inch apart against a carbon sheet and a letter-size sheet underneath, so that following each patent indexed there appears one or more sheets with a carbon of each line written upon the individual cards—an excellent method of afterwards checking as to the accuracy and completeness of indexing of the individual patent. The number of cards thus prepared from a single patent ranged from one or two in the relatively unimportant ones, to several thousand cards. For example, from U. S. Patent 1,505,043, which is a dissertation upon the cellulose ether art, there were prepared 2756 individual cards, the carbon of the same comprising 108 typed letter-size sheets. The total cast to us of indexing this ten-cent patent exceeded one hundred sixty dollars. The patent and the carbon sheet (or sheets) of the cards pertaining thereto were then filed in a series of loose-leaf covers by numerically increasing numbers, the first number of the patent in the volume appearing on the back of the same. A library of 168 volumes was thus formed covering this period.

It will be observed that a question mark has been placed in parenthesis in various places in the Index, indicating that while the patent has been indexed as published, we demur as to the completeness, clarity, accuracy or propriety of the statement so indexed.

In the indexing of the patents of the decennial period 1905-1914 we are now engaged, as likewise upon the biennial period 1925-1926. It is hoped to keep the Index to date by the issuance of biennial volumes, and if the demand for a work of this character is commeasurable with the labor and expense involved, it is planned to continue working backward in series of volumes embracing the periods 1885-1904 and 1790-1884, thus eventually making the Index complete for the entire United States patent issuance. It appeals to us that such a series of volumes, if accurate and complete, would be a wonderful stimulus to chemical patent inventiveness and ingenuity in the United States; would minimize useless legislation based on faulty or inadequate information as to the extent of basicity of chemical patents already allowed; indicate almost at a glance in an authoritative manner the precise state of the patent art for any given subject; and would substantially replace the laborious and not always satisfactory methods of search now available, at present based primarily upon systems of classification. We believe a patent index of this nature *should* be far superior in accuracy and completeness to the methods of patent search now available, *provided* the index is accurate, exhaustive and of maximum availability, *for the reason* that such a work indexes the subject matter from a line-upon-line scrutation of the specification and claims—the actual "guts" (a polite word in Shakespeare's time) of the patent—and depends in no wise upon the heading or claims only, which are often intentionally (?) involved and misleading for a definite purpose in the mind of the patentee, the real essence of the invention being perhaps hidden in an unobtrusive paragraph, and phrased in an inconspicuous manner, presumably with a well-defined purpose in view. There are said to be "tricks in all trades." In this connection we classify the preparation and searching of chemical patents as a "trade," and for this and other reasons, the preparation of an adequate index of the entire gamut of chemical technology has involved much labor on our part in certain instances, in endeavoring to try to satisfy ourselves as to the breadth, scope, basicity and limitations of a given invention from perusal of the

specification context. In some instances we have obtained and read the File Wrapper from which the application eventuated into a patent, in order to clarify our own mind upon involved points. It would seem that some of the granted specifications must have been prepared by "specialists," if a specialist is one "who knows more and more about less and less."

Upon Leo Rutstein, our junior associate, who collaborated in the preparation of the Author's former volumes, has devolved the responsibility of correlating the various systems of nomenclature and methods of procedure in indexing, in evolving a system applicable in maximum usefulness in an index of this character, which is composed of a non-homogeneous mixture of terms used in pure chemistry, chemical technology and chemical expressions of the trade and the works. The system of nomenclature used in Chemical Abstracts, Beilstein, "Organische Chemie" and Richter and Stelzner, "Lexicon der Kohlenstoff Verbindungen" has been followed by combination. In general, letters and phrases enclosed in parentheses are not to be considered in alphabetization. Letters and words in italics such as *o, m, p, d, l, leuco, racemic,* etc., are not to be considered from an alphabetical standpoint.

The numbering used in organic compounds is that followed by Chemical Abstracts, as far as it was possible to do so. The name used is of the largest parent compound it is possible to use for maximum clarity and to show the chemical structure. Thus 3-amino-hydroxy-benzene-sulfonic acid is hydroxy-metanilic acid. The name "phenol-sulfonic acid" is not used, save in a few exceptions. The only name used which indicates two functions is Naphthol-sulfonic acid, and in numbering these derivatives, the naphthol is always 1-naphthol or 2-naphthol, other groups being numbered to correspond. This is of paramount importance as several systems of numbering are used in the patents, and the same compound may appear under three or four separate headings. This heterogeneity has crept into the Patent Office archives mainly as the result of foreign patents being applied for in verbatim language to the foreign application, or having been translated into English in the country of their origin for filing here.

All substituent groups are listed in strictly alphabetical order and not in the order in which they may occur in a homologous or isologous series, and include such poly-compounds as dimethyl and triethyl, which are listed as one group beginning with "d" and "t" respectively. For example, substituent groups herein are written in the following order: Amino-chlor-diamino-dibenzyl-ethyl-methyl-phenyl-etc. This is of importance as otherwise it would be impossible to tell which of the substituent groups came first in the name, and consequently the card or entry could be located only with difficulty. Amyl-butyl-ethyl-methyl-octane would be found as above, and not this combination beginning with (say) butyl, or ethyl, or methyl. The same is true when using the largest parent compound, as in the case of hydroxy-metanilic acid, cited above, the compound if written in one way would be found under "Amino-etc.," whereas it should be found under "Hydroxy-metanilic acid." For this reason a large number (about 3800) "see" and "see also" cards have been used in order to clarify, simplify and knit together the Index into a compendium of maximum usefulness and speed of reference.

The use of bis-, bi- and di- is that given in Chemical Abstracts. For instance, nearly all compounds which might approximately be called Di.....-methane, are listed herein as Methylene-bis..... A complete explanation of this matter is found in the Journal of the American Chemical Society 1917, vol. 39, page 1623.

There are many articles and processes for which a large variety of words could be used as the index or leading word with equal propriety. We have endeavored to select as the "key" word or expression, that probably most familiar to a chemist or patent attorney, or the word or phrase most expressive of the thought in the least number of letters or words, in order to reduce the bulk of the Index to the minimum compatible with clearness.

Most of the names are self-explanatory to those reasonably familiar with the particular subject involved. Names of minerals are based on Dana's Mineralogy, those of pharmaceuticals and medicinal chemicals and therapeutic synthetics on the last edition of the U. S. Pharmacopœia and the two Dispensatories. The name used in the heading of the entry is the preferred English name for the product.

To research workers and authors, attention is directed to the wealth of data contained under the respective headings of the various topics. As a citation, under "Benzaldehyde" are to be found on pages 727-729, a total of 258 citations of patented information under 229 separate headings.

An inventor, through lack of chemical knowledge, or in an attempt to broaden the scope of his invention, or cover up the real essence of the specification, often indulges in generic rather than specific terms or expressions upon which two or more constructions may be placed, thus rendering the proper indexing of the patent difficult. If one is interested in (say) arsenous oxide (arsenic trioxide) the data may be found partially under "arsenic," which is supposed to index only the elemental form, but undoubtedly has therein many references to the arsenic oxides, especially the trioxide. He should also consult "arsenous oxide," "arsenic trioxide," "arsenic oxide," "arsenious acid," "arsenic acid," and "arsenic pentoxide," for the reason above stated. Then there are present in this Index a number of general headings such as "arsenate," "arsenite," "article," which would be superfluous if the patent were sufficiently specific from a chemical viewpoint, or if the inventor were not endeavoring to protect for himself a whole series of compounds, rather than a specific body in a general class. When examining the references under a specific heading, always at the end of the references refer to the heading for leads under "see" and "see also" references in italics.

In comprehending the entire U. S. patent art covering the period of this Index for any given subject, if the Index is complete, it merely becomes necessary to order of the Commissioner of Patents, Washington, D. C., at ten cents each, the patents represented by the numbers appearing under any given subject. That is, this Index is supposed to be a complete search of the entire field of chemistry as shown by the granted patents and patent re-issues.

The abbreviations used in this work are few and simple: "mfr." for manufacture, manufactured or manufacturing (whichever is most applicable); "obtg." for obtained by, obtaining; "contg." for contained, containing; "pro." for production, producing.

As an example of the use of dashes instead of words, attention is drawn to the seventeenth line from the top of page 250, which says: "—, —, —, mfr. of, process," and which would read in full, "A process for the manufacture of alcohol by the oxidation of air in the presence of a catalyst."

We have roughly computed the extent of the four succeeding volumes covering this decennial period Index of chemical patents by weighing the cards and headings comprising the same, and comparing them against the weight of the cards contained in this volume. The approximations are as follows:

Vol. I. Preface and Index of Names, 138 pages; Subject Index, A-497; B-269. Total 904 pages.
Vol. II. C-675; D-110; E-105. Total 890 pages.
Vol. III. F-200; G-135; H-125; I-140; JK-35; L-145. Total 780 pages.
Vol. IV. M-205; N-120; O-90; P-355; QR-130. Total 910 pages.
Vol. V. S-460; T-160; U-20; V-70; W-110; X-12; Y-10; Z-70. Total 912 pages.

This gives an apparent approximation of 4396 pages for the five volumes.

It is a pleasure to acknowledge and to record the valuable assistance of the coadjutors who have co-operated in the arduous labor involved in some portions of a work of this character, who have contributed of their time, energy and specialized information so willingly, and without whose assistance the work could not have eventuated. If there is merit herein, the credit primarily to them belongs. Preston R. Smith, expert in the intricacies of organic chemistry; Dr. Carl Marx, Dr. O. W. Wilcox, and Messrs. De Witt Bell, Clarence H. Lehman, John W. Bruce and Clifford Evers are all entitled to special acknowledgment. Mr. George H. Stevens kindly looked over those portions of the index involving rubber and vulcanization accelerators, and allowed us to draw from his years of practical experience in the elucidation of this complicated subject. Mr. Frank Alva Worden threw the entire list of cards into the approximately 5780 separate indexing headings constituting the original card classification, a task involving nearly four years of uninterrupted labor and calling for a high degree of sustained perseverance.

To Misses Jean N. Baker, Lydia Englander, Pauline S. Newmark and Sophia R. Livingston, A. B. (in order of their seigniory), have devolved the responsibility of spelling and card classification, the retyping of the cards upon sheets with the replacement of words and phrases by the corresponding number of dashes, and the almost endless checking of the references against the original patent specification to ensure the minimum of inaccuracy.

Grateful appreciation is acknowledged to the technical staff of the Chemical Catalog Company, Inc., for valuable assistance during the progress of the planning and printing of the work, and to The Lord Baltimore Press, of Baltimore, Md., for the execution of what must be conceded to be an unusual and difficult piece of typography. This point becomes especially pertinent when it is remembered that the entire work, from issuance of first galley proof to the completion of printing, occupied a period of less than nine weeks.

The Author would esteem it a courtesy to have his attention directed to such errors as have inadvertently (or otherwise) crept in. Pending the issuance of succeeding volumes, correspondence respecting data not yet published will be welcomed from those interested in topics which happen to begin with letters other than "A" or "B" comprising this volume.

EDWARD CHAUNCEY WORDEN, FIRST.

MILLBURN, NEW JERSEY,
August 22, 1927.

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Clark, Z., 1,253,786
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Clarke, C., 1,269,906
Clarke, H., 1,309,980; 1,309,981; 1,357,614; 1,370,878; 1,370,879; 1,395,905; 1,398,939; 1,405,490; 1,405,491; 1,434,429; 1,444,333
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—, —, sodium hydroxide for, 1,263,607; 1,263,709; 1,263,710
—, —, sodium silicate for, 1,314,835
—, —, sodium sulfate for, 1,263,607; 1,263,709; 1,263,710; 1,269,222
—, —, Spanish white for, 1,176,174
—, —, starch for, 1,364,849
—, —, steam for, 1,234,905
—, —, steel chips for, 1,442,773
—, —, sulfur dioxide for, 1,234,905
—, —, talc for, 1,353,979; 1,504,697
—, —, tar for, 1,364,849
—, —, thermite slag for, 1,247,337
—, —, thorium for, 1,343,976; 1,343,977
—, —, thorium carbide for, 1,343,976; 1,343,977
—, —, thorium oxide for, 1,343,976; 1,343,977
—, —, titanium for, 1,343,976; 1,343,977
—, —, titanium compounds for, 1,442,773
—, —, titanium dioxide for, 1,149,064; 1,234,905; 1,263,607
—, —, titanium oxide for, 1,149,064; 1,240,490; 1,240,491; 1,247,337; 1,268,532; 1,343,976; 1,343,977
—, —, trachyte for, 1,504,697
—, —, tungsten for, 1,343,976; 1,343,977
—, —, tungsten alloy, molybdenum in, for, 1,343,976; 1,343,977
—, —, tungsten boride for, 1,343,976; 1,343,977
—, —, tungsten carbide for, 1,343,976; 1,343,977
—, —, tungsten titanide for, 1,343,976; 1,343,977
—, —, turpentine for, 1,176,174
—, —, uranium for, 1,343,976; 1,343,977
—, —, uranium oxide for, 1,343,976, 1,343,977.

Abrasive, mfr. of, zinc for, 1,263,709
—, —, zinc compound for, 1,269,222
—, —, zinc oxide for, 1,263,709; 1,269,222
—, —, zirconium for, 1,343,976; 1,343,977
—, —, zirconium oxide for, 1,240,490; 1,240,491; 1,343,976; 1,343,977
—, —, water for, 1,234,905
—, —, wood for, 1,176,174
—, —, wood powder for, 1,497,836
—, —, wool for, 1,497,836
—, oil, hydrocarbon, in, 1,324,215
—, paint, concrete, made with, 1,383,268
—, phenol aldehyde condensate, composition of and, 1,218,146; 1,259,472; 1,259,473
—, —, compound of and, 1,133,083
—, potassium silicate in, 1,314,835
—, quartz as, 1,497,836
—, *razor strop-, see Strops, sharpening material for applying to,*
—, road paving made with, 1,206,056
—, rubber as binder for, 1,482,792; 1,482,793
—, sheets coated with, mfr. of, 1,414,447
—, shellac as binder for, 1,482,792; 1,482,793
—, silica in, 1,268,533; 1,444,479
—, silicon, in, 1,279,828
—, silicon carbide as, 1,444,162; 1,488,311
—, silicon dioxide in, 1,257,356
—, soap made with, 1,178,142
—, soap pellet made using, 1,436,928
—, soap sheets contg., 1,436,929
—, sodium silicate in, 1,314,835
—, sulfates in, 1,444,479
—, tile made with, 1,198,940
—, titanium carbide as,1,444,162
—, titanium dioxide in, 1,257,356
—, titanium oxide in, 1,268,533
—, tools contg., mfr. of, rubber, sulfur and vulcanizing accelerator for, 1,394,500
—, tungsten carbide used as, 1,343,976; 1,343,977
—, weak grained, advantages of, 1,263,709
—, *see also Adamite; Aloxite; Alumina, crystalline; Alundum; Carborundum; Corundum; Disk, abrasive; Crystolon; Emery; Eraser; Grinding compound; Hone; Razor hone; Wheel, abrasive*
Abrasive article, mfr. of, alkali silicate for, 1,243,783
—, —, aloxite for, 1,243,783
—, —, carborundum for, 1,243,783
—, —, clay for, 1,243,783
—, —, corundum for, 1,243,783
—, —, feldspar for, 1,243,783
—, —, flint for, 1,243,783
—, —, process for, 1,243,783
—, —, sodium silicate for, 1,243,783
—, —, zinc oxide for, 1,243,783
—, *see also Abrasive wheel; Grinding wheels*
Abrasive band, cigar made with, 1,221,634
Abrasive belt, mfr. of, almandite for, 1,192,394
—, —, emery for, 1,194,494
—, —, garnet for, 1,192,394
—, —, glue for, 1,194,494
—, —, paper for, 1,194,494
—, —, process for, 1,192,394; 1,194,494
—, —, sand paper for, 1,194,494
—, water-proof, mfr. of, acetic acid for, 1,484,759
Abrasive belt, water proof, mfr. of, benzene for, 1,484,759
—, —, —, benzine for, 1,484,759
—, —, —, formaldehyde for, 1,484,759
—, —, —, glue for, 1,484,759
—, —, —, gum for, 1,484,759
—, —, —, linseed oil for, 1,484,759
—, —, —, oil for, 1,484,759
—, —, —, phenol for, 1,484,759
—, —, —, process for, 1,484,759
—, —, —, rosin for, 1,484,759
—, —, —, rubber for, 1,484,759
—, —, —, varnish for, 1,484,759
—, —, —, wax for, 1,484,759
—, *see also Abrasive paper*
Abrasive block, mfr. of, cement, Portland, for, 1,133,739
—, —, iron for, 1,133,739
—, —, process for, 1,133,739
—, —, sand for, 1,133,739
—, —, steel for, 1,133,739
Abrasive cloth, mfr. of, almandite for, 1,192,394
—, —, garnet for, 1,192,394
—, —, process for, 1,192,394
Abrasive composition, formula, 1,381,728
—, lubricating properties developed by, 1,381,728
—, mfr. of, diatomaceous earth for, 1,444,479
Abrasive compound, bluing, laundry, in, 1,443,660
—, iron oxide in, 1,443,660
—, sapolio in, 1,443,660
—, silica in, 1,443,660
—, sodium carbonate in, 1,443,660
—, sodium chloride in, 1,443,660
—, venetian red in, 1,443,660
Abrasive disk, mfr. of, abrasive for, 1,209,831
—, —, alundum for, 1,311,550
—, —, apparatus for, 1,209,831
—, —, carborundum for, 1,217,593; 1,311,550; 1,351,021
—, —, carborundum, magnesium chloride and magnesium oxide for, 1,351,021.
—, —, cellulose ester for, 1,217,593
—, —, cellulose nitrate for, 1,217,593
—, —, cloth for, 1,209,831; 1,217,593
—, —, corundum for, 1,217,593
—, —, emery for, 1,217,593; 1,311,550
—, —, emery cloth for, 1,209,831
—, —, fabric for, 1,217,593; 1,311,550; 1,351,021
—, —, fiber for, 1,311,550
—, —, glue for, 1,209,831; 1,351,021
—, —, magnesite for, 1,311,550; 1,351,021
—, —, magnesium chloride for, 1,311,550; 1,351,021; 1,458,322
—, —, magnesium oxide for, 1,351,021; 1,458,322
—, —, metal for, 1,217,593; 1,311,550
—, —, paper for, 1,209,831; 1,217,593; 1,311,550
—, —, process for, 1,139,541; 1,209,831; 1,217,593; 1,351,021
—, —, quartz for, 1,217,593
—, —, rubber for, 1,209,831
—, —, sand for, 1,217,593
—, —, sand paper for, 1,209,831
—, —, shellac for, 1,209,831
—, —, silicate for, 1,311,550
—, —, wood for, 1,217,593; 1,311,550

Abrasive disk, waterproof, mfr. of, acetic acid for, 1,484,759
—, —, —, benzene for, 1,484,759
—, —, —, benzine for, 1,484,759
—, —, —, formaldehyde for, 1,484,759
—, —, —, glue for, 1,484,759
—, —, —, gum for, 1,484,759
—, —, —, linseed oil for, 1,484,759
—, —, —, oil for, 1,484,759
—, —, —, phenol for, 1,484,759
—, —, —, process for, 1,484,759
—, —, —, rosin for, 1,484,759
—, —, —, rubber for, 1,484,759
—, —, —, varnish for, 1,484,759
—, —, —, wax for, 1,484,759
—, *see also Abrasive paper; Abrasive wheel*
Abrasive fabric, mfr. of, beeswax for, 1,141,371
—, —, benzine for, 1,141,371
—, —, glue for, 1,141,371
—, —, lead oxide for, 1,141,371
—, —, nickel oxide for, 1,141,371
—, —, process for, 1,141,371
—, —, resin for, 1,141,371
—, *see also Sand-paper*
Abrasive material, matches contg. central portion of, 1,402,754
Abrasive paper, mfr. of, almandite for, 1,192,394
—, —, garnet for, 1,192,394
—, —, process for, 1,192,394
—, water-proof, mfr. of, acetic acid for, 1,484,759
—, —, —, benzene for, 1,484,759
—, —, —, benzine for, 1,484,759
—, —, —, formaldehyde for, 1,484,759
—, —, —, glue for, 1,484,759
—, —, —, gum for, 1,484,759
—, —, —, linseed oil for, 1,484,759
—, —, —, oil for, 1,484,759
—, —, —, phenol for, 1,484,759
—, —, —, process for, 1,484,759
—, —, —, rosin for, 1,484,759
—, —, —, rubber for, 1,484,759
—, —, —, varnish for, 1,484,759
—, —, —, wax for, 1,484,759
—, *see also Abrasive belt; Abrasive disk; Abrasive wheel; Emery cloth; Sand paper*
Abrasive stone, mfr. of, alumina for, 1,483,854
—, —, casein for, 1,483,854
—, —, celluloid for, 1,483,854
—, —, clay, vitrified, for, 1,483,854
—, —, corundum for, 1,483,854
—, —, emery for, 1,483,854
—, —, factis for, 1,483,854
—, —, graphite for, 1,483,854
—, —, linseed oil for, 1,483,854
—, —, oil for, 1,483,854
—, —, phenol aldehyde condensate for, 1,483,854
—, —, process for, 1,483,854
—, —, rubber for, 1,483,854
—, —, rubber, artificial, for, 1,483,854
—, —, shellac for, 1,483,854
—, —, silicon carbide for, 1,483,854
—, —, sulfur for, 1,483,854
Abrasive stone, treatment of, emery for, 1,195,246
—, —, process for, 1,195,246
—, —, pumice for, 1,195,246
Abrasive stone, treatment of, soap lather for, 1,195,246
—, —, steel for, 1,195,246
—, —, vaseline for, 1,195,246
—, *see also Razor hone*
Abrasive structures, mfr. of, abrasive material, glass, sodium silicate or molasses for, 1,338,598
Abrasive wheel, ceramic, mfr. of, 1,444,162
—, dressing of, apparatus for, 1,501,229
—, —, process for, 1,501,229
—, fat, impregnation with of, 1,325,503
—, grease, impregnation with of, 1,325,503
—, impregnating, 1,403,416
—, mfr. of, 1,403,416
—, —, abrasive for, 1,235,325
—, —, acetone for, 1,435,721
—, —, adamite for, 1,133,260
—, —, alcohol for, 1,427,844
—, —, aloxite for, 1,133,260; 1,310,291; 1,310,292; 1,310,360; 1,427,844; 1,435,721
—, —, alumina for, 1,210,358
—, —, aluminum oxide for, 1,325,504
—, —, alundum for, 1,133,260; 1,146,884
—, —, apparatus for, 1,485,132
—, —, calcium carbonate for, 1,133,260
—, —, calcium rosinate for, 1,427,844
—, —, calcium sulfate for, 1,325,504
—, —, canvas for, 1,435,721
—, —, carborundum for, 1,133,260; 1,139,739; 1,146,884; 1,210,358; 1,310,291; 1,310,292; 1,310,360; 1,435,721
—, —, ceresin for, 1,310,292
—, —, clay for, 1,139,739; 1,146,884; 1,187,431; 1,235,325; 1,310,291; 1,310,292; 1,310,360; 1,485,132; 1,512,177
—, —, clay, ball, for, 1,512,177
—, —, —, china, for, 1,512,177
—, —, —, porcelain, for, 1,512,177
—, —, —, slip, for, 1,512,177
—, —, core oil for, 1,512,177
—, —, corundum for, 1,146,884; 1,310,291; 1,310,292; 1,310,360; 1,427,844
—, —, crystolen for, 1,146,884
—, —, cumarone for, 1,310,291; 1,310,292
—, —, emery for, 1,139,739; 1,146,884; 1,310,291; 1,310,292; 1,310,360; 1,427,844
—, —, fabric for, 1,133,260; 1,435,721
—, —, feldspar for, 1,310,291; 1,310,292; 1,310,360; 1,512,177
—, —, fiber for, 1,133,260
—, —, graphite for, 1,146,884
—, —, "Halowax # 1001" for, 1,310,360
—, —, "Halowax pitch" for, 1,310,360
—, —, kaolin for, 1,512,177
—, —, lead oxide for, 1,427,844
—, —, lead rosinate for, 1,427,844
—, —, lime for, 1,427,844
—, —, linseed oil for, 1,512,177
—, —, magnesite, calcined, for, 1,133,260
—, —, magnesium carbonate for, 1,133,260
—, —, magnesium chloride for, 1,133,260
—, —, magnesium oxide for, 1,133,260
—, —, metal for, 1,133,260
—, —, metal oxide for, 1,427,844
—, —, molasses for, 1,512,177
—, —, naphtha, solvent, for, 1,427,844

Abrasive wheel, mfr. of, naphthalene, chlorine derivative of, for, 1,310,360
—, —, oils for, 1,512,177
—, —, ozocerite for, 1,310,292
—, —, paper for, 1,435,721
—, —, paracoumarone for, 1,310,291; 1,310,292; 1,427,844
—, —, paraffin for, 1,146,884; 1,310,292
—, —, paraindene for, 1,427,844
—, —, phenol aldehyde condensate for, 1,208,330; 1,235,325; 1,435,721
—, —, plaster of Paris for, 1,325,504
—, —, plumbago for, 1,146,884
—, —, potassium permanganate for, 1,139,739
—, —, potassium silicate for, 1,139,739
—, —, process for, 1,133,260; 1,139,739; 1,146,884; 1,187,431; 1,208,330; 1,210,358; 1,235,325; 1,351,021; 1,427,844; 1,435,721; 1,485,132; 1,501,229; 1,512,177
—, —, quartz sand for, 1,485,132
—, —, rosin for, 1,146,884; 1,187,431; 1,427,844
—, —, rubber for, 1,210,358
—, —, rubber, Para, for 1,210,358
—, —, sand for, 1,512,177
—, —, shellac for, 1,259,806; 1,325,504; 1,427,844
—, —, silicates for, 1,187,431; 1,235,325
—, —, silicon carbide for 1,146,884; 1,235,325; 1,310,291; 1,310,292; 1,310,360; 1,325,504; 1,427,844
—, —, silicon monoxide for, 1,259,806
—, —, soap stone for, 1,210,358
—, —, sodium silicate for, 1,139,739; 1,146,884; 1,187,431; 1,208,330; 1,210,358; 1,235,325; 1,310,291; 1,310,292; 1,310,360; 1,512,177
—, —, sulfur for, 1,210,358
—, —, tallow for, 1,146,884
—, —, tetrachlornaphthalene for, 1,310,360
—, —, vaseline for, 1,146,884
—, —, wax for, 1,310,292
—, —, wood for, 1,133,260
—, —, zinc oxide for, 1,427,844
—, —, zinc rosinate for, 1,427,844
—, oil, impregnation with of, 1,325,503
—, paraffin, impregnation with of, 1,325,503
—, pneumatic, mfr. of, canvas for, 1,487,256
—, —, —, process for, 1,487,256
—, —, —, rubber for, 1,487,256
—, rosin, impregnation with of, 1,325,503
—, shellac in, 1,259,806
—, silicon monoxide in, 1,259,806
—, water-proof, mfr. of, acetic acid for, 1,484,759
—, —, —, benzene for, 1,484,759
—, —, —, benzine for, 1,484,759
—, —, —, formaldehyde for, 1,484,759
—, —, —, glue for, 1,484,759
—, —, —, gum for, 1,484,759
—, —, —, linseed oil for, 1,484,759
—, —, —, oil for, 1,484,759
—, —, —, phenol for, 1,484,759
—, —, —, process for, 2,484,759
—, —, —, rosin for, 1,484,759
—, —, —, varnish for, 1,484,759
—, —, —, wax for, 1,484,759
—, wax, impregnation with of, 1,325,503
—, *see also Abrasive disk; Abrasive paper*
Abrastol, see Asaprol
Absinthe, extraction of valuable principles from, process for, 1,167,006
Absinthium, see Wormwood
Absorbent charcoal, see Charcoal, absorbent
Absorbent black, see Carbon, decolorizing
Absorbent cotton, see Cotton, absorbent
Absorbent gas, mfr. of, asbestos for, 1,321,061
—, —, charcoal for, 1,321,061
—, "hoolamite" as, 1,321,061
—, —, iodic acid for, 1,321,061
—, —, iodine for, 1,321,061
—, —, iodine pentoxide for, 1,321,061
—, —, process for, 1,321,061
—, —, pumice for, 1,321,061
—, —, sulfuric acid, fuming, for, 1,321,061
Absorbing composition, 1,455,414
Absorption apparatus, construction of, 1,314,802
Absorption chamber, see Absorption tower
Absorption towers, construction of, 1,307,635
Absorptive carbon, see Carbon, absorptive
Absorptive material, mfr. of, see Carbon, absorptive, mfr. of
Acacia, abrasives, grading of using, 1,519,250
—, adhesive made with, 1,235,784; 1,263,634; 1,263,635; 1,498,269
—, adhesive, fireproof, made with, 1,248,092
—, adhesive for radium luminous articles contg., 1,364,950
—, alkali perborate made with, 1,253,061
—, alkali percarbonate made with 1,225,722; 1,225,832; 1,225,872
—, alkali percarbonate stabilized using, 1,225,872
—, aluminum, colloidal, made with, 1,491,250
—, —, enamel for, made with, 1,230,958
—, —, hardened with 1,336,420
—, aluminum alloy made with, 1,230,958
—, amylase preserved with, 1,444,250
—, anti-leak composition made with, 1,383,572; Re-15,971
—, antimony sulfide, colloidal, mfr. of, made with, 1,412,438
—, arsenic pentasulfide, colloidal, made with, 1,412,439
—, arsenic trisulfide, colloidal, made with, 1,412,439
—, beer contg., 1,337,027; 1,337,850
—, beer, dealcoholized, made with, 1,223,121; Re-14,391; 1,265,274; 1,265,275
—, beer-flavoring contg., 1,339,528; 1,354,585
—, beverage made with, 1,500,670
—, binder made with, 1,263,634; 1,263,635; 1,431,455
—, bismuth, colloidal, made with, 1,491,250
—, bone, dyeing of using, 1,358,456
—, bottle capsuling composition contg., 1,428,096
—, bottle seal contg., 1,299,389
—, bottle sealing composition made with, 1,428,096
—, brake band contg., 1,307,857
—, brass, etching of with, 1,276,599
—, british gum, substitute for, made with, 1,263,634; 1,263,635
—, bullet, impact illuminating, made with, 1,242,879

Acacia, butter made with, 1,509,082
—, butter substitute made with, 1,190,369
—, button made with, 1,177,803
—, carbon, electric-arc lamp made with, 1,302,795
—, carbon tetrachloride emulsified with, 1,421,428
—, calcium carbonate, colloidal, made with, 1,493,847
—, catalyst, cobalt as, made with, 1,200,696
—, —, copper as, made with, 1,200,696
—, —, iron as, made with, 1,200,696
—, —, nickel as, made with, 1,200,696
—, cedar box substitute made with, 1,283,420; 1,283,421; 1,283,422
—, cellulose ether, composition of and, 1,217,028
—, cellulose sulfite liquor as emulsifier for, 1,440,356
—, cement contg., 1,458,308
—, cement, transparent, made with, 1,177,803
—, chewing gum made with, 1,397,742
—, chromium, colloidal, made with, 1,491,250
—, cigar, imitation, made with, 1,212,066
—, —, self-igniting, made with, 1,142,529
—, cigar box made with, 1,283,420; 1,283,421; 1,283,422
—, cigarette, self-igniting, made with, 1,142,529
—, clay, china, cleaned with, 1,324,958
—, —, —, Fraddon, cleaned with, 1,324,958
—, —, —, mid-Cornwall, cleaned with, 1,324,958
—, —, —, North America, cleaned with, 1,324,958
—, —, —, North Carolina, cleaned with, 1,324,958
—, —, —, Pentruff, cleaned with, 1,324,958
—, —, —, treated with, 1,324,958
—, cleaner made with, 1,218,163
—, cliche made with, 1,167,939
—, cloth, mottled, printing of using, 1,416,311
—, clothing made with, 1,245,268
—, cobalt, catalyst, made with, 1,200,696
—, —, colloidal, made with, 1,491,250
—, colloidal solutions stabilized with, 1,429,876
—, colloid protective agent, 1,412,438
—, colloid stabilizer, 1,412,439
—, color carrier made with, 1,206,000
—, color photographic process employing, 1,431,663
—, color photography film made with, 1,364,959
—, color screen made with, 1,206,000
—, condiment made with, 1,513,298
—, container, paper, made with, 1,203,302; 1,203,303
—, copper, catalyst, made with, 1,200,696
—, —, colloidal, made with, 1,491,250
—, —, etching of with, 1,276,599
—, copying pad contg., 1,364,542
—, cotton, dyeing of using, 1,486,353
—, cream, artificial, made with, 1,190,369
—, cream substitute made with, 1,216,052
—, decorated article made with, 1,513,259
—, dentifrice made with, 1,133,250; 1,222,144; 1,516,206
—, detonator made with, 1,168,746; 1,185,830
—, dextrin, substitute for, made with, 1,263,634; 1,263,635
—, doll made with, 1,199,251
Acacia, dye compound made with, 1,358,456
—, emery, grading of using, 1,519,250
—, emulsifying with, 1,440,356
—, emulsion, turbid, made with, 1,500,670
—, emulsion stabilizer, 1,445,427
—, envelope, adhesive for, made with, 1,198,099
—, ethyl cellulose, composition of and, 1,217,028
—, explosive contg. nitrostarch and, 1,370,015
—, fabric, brocaded effect on, made using, 1,513,370
—, —, decorating of, using, 1,495,146
—, —, size for, made with, 1,263,634; 1,263,635
—, —, waterproofing of, using, 1,240,345
—, fabric stiffening material contg., 1,421,700
—, feathers, dyeing of using, 1,358,456
—, —, imitation, made using, 1,246,296
—, fertilizer, explosive, contg., 1,316,396
—, filament, artificial, made with, 1,217,028
—, film, motion picture, phonograph record on, made with, 1,185,056
—, —, photographic, colored, made with, 1,508,447
—, finger print, taking of using, 1,170,273
—, fire extinguisher made with, 1,248,092; 1,421,428
—, fireproofing made with, 1,248,092
—, flong coating contg., 1,385,284
—, floor coverings made with, 1,431,455
—, flotation with, 1,446,375; 1,446,376; 1,446,377; 1,446,378
—, food product made with, 1,150,607; 1,191,388
—, food product, imitation, made with, 1,212,066
—, fruit, imitation, made with, 1,212,066
—, fruit juices preserved with, 1,458,427
—, gauze, decorating of using, 1,495,146
—, gelatin contg. for coating suppositories, 1,366,941
—, gelatin, substitute for, made with, 1,263,634; 1,263,635
—, glass etching paste made with, 1,470,772
—, glass, gold, ornamented, made with, 1,205,728
—, glue, animal, substitute for, made with, 1,263,634; 1,263,635
—, graphite, colloidal, made with, 1,175,958
—, gum, artificial, substitute for, made with, 1,263,634; 1,263,635
—, hair, artificial, made with, 1,217,028
—, heater, electric, embedding material for, made with, 1,125,615; 1,125,616
—, heptamercury(ic) thioarsenite colloidal, made with, 1,412,439
—, heron feathers, imitation, made using, 1,246,296
—, ice cream, imitation, made with, 1,212,066
—, ink made with, 1,471,884
—, ink, indelible, contg., 1,289,793
—, —, printing, made with, 1,421,125; 1,471,884
—, —, solid, contg., 1,334,722
—, —, water color, made with, 1,481,647
—, insulation, electric, made with, 1,286,372
—, iron, catalyst, made with, 1,200,696
—, —, colloidal, made with, 1,491,250
—, ivory, imitation, made with, 1,469,035
—, kelp product made with, 1,513,298

Acacia, lamp shade made with, 1,513,259
—, lead, colloidal, made with, 1,491,250
—, lead-zinc sulfide ore classified by, 1,448,514; 1,448,515
—, lead-zinc sulfide ore colloided by, 1,448,514; 1,448,515
—, lead-zinc sulfide ore deflocculated by, 1,448,514; 1,448,515
—, leather, artificial, made with, 1,431,455
—, —, dyeing of using, 1,358,456
—, leather substitute made with, 1,281,650
—, light-sensitizing, potassium bichromate for, 1,431,663
—, linen, dyeing of using, 1,486,353
—, lithograph made with, 1,492,625
—, lithographic engraving made using, 1,129,901
—, lithographic ink contg., 1,406,837
—, lithographic plate made with, 1,155,352; 1,162,168; 1,433,111
—, match made with, 1,153,525
—, match heads contg., 1,329,537
—, meat, imitation, made with, 1,212,066
—, medicated pencil made with, 1,280,580
—, mercury, colloidal, made with, 1,491,250
—, mercury distributed in, for syphilis, 1,451,850
—, mercury(ic) thioarsenite, colloidal, made with, 1,412,439
—, mercurial compound made with, 1,451,850
—, metal, colloidal, made with, 1,491,250
—, —, etching of with, 1,276,599
—, —, ornamenting of using, 1,204,005
—, milk, imperishable, made with, 1,509,083
—, milk shake powder contg., 1,388,084
—, molded article made with, 1,286,372; 1,511,459
—, molybdenum, colloidal, made with, 1,491,250
—, mucilage made with, 1,198,099
—, nickel, catalyst, made with, 1,200,696
—, —, colloidal, made with, 1,491,250
—, nitrated, finish remover made with, 1,169,783
—, "Nulomoline" made with, 1,181,086
—, oils emulsified with, printing plates treated with, 1,430,347
—, oil proofing with, 1,395,272; 1,513,139
—, ore classified by, 1,448,514; 1,448,515
—, ore colloided by, 1,448,514; 1,448,515
—, ore deflocculated by, 1,448,514; 1,448,515
—, ore pulp classified by, 1,448,514; 1,448,515
—, ore pulp colloided by, 1,448,514; 1,448,515
—, ore pulp deflocculated by, 1,448,514; 1,448,515
—, paint contg., 1,369,857
—, paint, composition for addition to, made with, 1,229,337
—, —, fireproof, made with, 1,248,092
—, paint remover made with, 1,483,587
—, paper made with, 1,283,422
—, paper, adhesive, made with, 1,198,099; 1,297,405
—, —, coated, made with, 1,513,139
—, —, dyeing of using, 1,358,456
—, —, fireproof sizing for, made with, 1,248,092
—, —, mottled, printing of using, 1,416,311
—, —, photographic, made with, 1,126,872
—, —, safety, made with, 1,177,787
—, —, —, adhesive, made with, 1,177,787
—, —, writing, made with, 1,234,045; Re-14,499
Acacia, paper-board made with, 1,283,422
—, paper filler contg., 1,261,135
—, paper size of, 1,428,064
—, parchment, mottled, printing of using, 1,416,311
—, paste made with, 1,198,099
—, paste contg., 1,384,917; 1,448,134
—, pearl, artificial, made with, 1,289,878
—, "Pellet" paper made with, 1,213,925
—, pentamercury(ic) thioarsenite, colloidal, made with, 1,412,439
—, phenol aldehyde condensate made with, 1,286,372
—, phonograph record, film, motion picture, made with, 1,185,056
—, photographic paper made with, 1,213,925
—, photographic sensitizing preparation contg., 1,126,872
—, photography, color, color carrier for, made with, 1,206,000; 1,221,457
—, —, —, film for, made with, 1,477,880; 1,477,881; 1,477,882; 1,477,883
—, —, colored, multicolor screen for, made with, 1,486,635
—, picture, latent color, made using, 1,507,358
—, pistachio nuts coated with sodium chloride and, 1,460,510
—, pistachio nuts preserved using, 1,460,510; Re-15,902
—, plaster board made with, 1,489,693
—, plastic made with, 1,199,251; 1,293,191
—, plastic composition contg., 1,431,455
—, plate, press, made with, 1,325,890
—, —, printing, made with, 1,276,599
—, plumber's soil contg., 1,417,258
—, polish made with, 1,218,163; 1,301,823
—, potassium ferricyanide and, background consisting of photograph of minute crystals of, 1,368,033
—, preservative made with, 1,263,634; 1,263,635
—, primer made with, 1,308,394; 1,311,872
—, primer charge contg., 1,308,393
—, priming mixture contg., 1,437,224
—, print, water color, made using, 1,481,647
—, printers blanket made with, 1,147,942
—, printing ink contg., 1,404,355; 1,410,572; 1,420,086; 1,421,125
—, printing plate made with, 1,245,120; 1,496,268
—, printing plate, lithographic, made with, 1,203,770
—, protective colloid, 1,259,708; 1,447,008
—, —, catalyst, finely divided, made with, 1,259,708
—, —, compound, finely divided, made with, 1,259,708
—, —, ink, finely divided, made with, 1,259,708
—, —, insecticide, finely divided, made with, 1,259,708
—, —, material, finely divided, made with, 1,259,708
—, —, medicine, finely divided, made with 1,259,708
—, —, paint, finely divided, made with 1,259,708
—, —, pigment, finely divided, made with, 1,259,708

Acacia, protective colloid, substance, finely divided, made with, 1,259,708
—, puncture closing composition contg., 1,375,510
—, pyrogallol aldehyde condensate made with, 1,286,372
—, pyrotechnic made with, Re-14,177 (759,387)
—, pyrotechnic composition contg., 1,441,551; 1,441,552
—, refractory agglomerated with, 1,418,372
—, refractory material contg., 1,372,016
—, relievo-form made with, 1,167,939
—, rubber composition contg., 1,262,828
—, rubber latex, artificial, made with, 1,513,139
—, satin white, treatment of with, 1,261,135
—, shoe made with 1,245,268
—, shoe, box toe for, made with, 1,282,717
—, shoe filler made with, 1,134,931; 1,138,909; 1,203,435
—, shoe polish, white, of zinc white and, 1,452,614
—, shoe stiffeners contg., 1,415,378
—, silk, artificial, made with, 1,217,028
—, —, decorating of, using, 1,495,146
—, silver, colloidal, made with, 1,491,250
—, size made with, 1,263,634; 1,263,635
—, sizing made with, 1,276,206
—, slimes classified by, 1,448,514; 1,448,515
—, slimes colloided by, 1,448,514; 1,448,515
—, slimes deflocculated by, 1,448,514; 1,448,515
—, soap made with, 1,321,516
—, soap sheets made with, 1,436,929
—, sodium perborate made with, 1,253,061
—, sodium percarbonate made with, 1,225,722; 1,225,832
—, solvent for, benzine as, 1,458,308
—, starch, fireproof, made with, 1,248,092
—, —, modified, substitute for, made with, 1,263,634; 1,263,635
—, —, soluble, substitute for, made with, 1,263,634; 1,263,635
—, steel, etching of with, 1,276,599
—, stencil made with, 1,371,157
—, stiffener made with, 1,263,634; 1,263,635
—, straw, dyeing of using, 1,358,456
—, —, size for, made with, 1,263,634; 1,263,635
—, straw hat, size for, made with, 1,263,634; 1,263,635
—, suppository made with, 1,366,941
—, syphilis, treatment of, compound for, made with, 1,499,249
—, syphilis treated with mercury in, 1,451,850
—, tantalum, colloidal, made wth, 1,491,250
—, teeth, artificial, made with, 1,511,458; 1,511,459
—, thalium, colloidal, made with, 1,491,250
—, therapeutic compound made with, 1,499,249
—, therapeutic product made with, 1,493,847; 1,513,298
—, tin, colloidal, made with, 1,491,250
—, —, ornamenting of using, 1,204,005
—, tire puncture healing composition made with, 1,375,510
—, tire, puncture-healing compound contg., 1,271,015
—, titanium, colloidal, made with, 1,491,250
—, tobacco pipe made with, 1,455,396
Acacia, tobacco pipe composition contg., 1,445,396
—, tobacco plug made with, 1,125,771
—, tobacco receptacle made with, 1,283,420; 1,283,421; 1,283,422
—, tooth-cleaning preparation contg., 1,445,352
—, tooth-paste contg., 1,467,024
—, trimercury(ic) thioarsenite, colloidal, made with, 1,412,439
—, tungsten, colloidal, made with, 1,491,250
—, uranium, colloidal, made with, 1,491,250
—, vanadium, colloidal, made with, 1,491,250
—, varnish, fireproof, made with, 1,248,092
—, varnish, polish contg., 1,411,353
—, varnish remover made with, 1,483,587
—, vegetable, imitation, made with, 1,212,066
—, venereal disease, treatment of, compound for, made with, 1,499,249
—, wall coverings made with, 1,431,455
—, water-insoluble paste contg., 1,448,134
—, waterproof composition contg., 1,390,424
—, waterproof material made with, 1,245,268; 1,431,455
—, waterproofing using, 1,240,345
—, waterproofing contg., 1,400,579
—, wood, dyeing of using, 1,358,456
—, —, imitation, made with, 1,469,035
—, zinc made with, 1,262,190
—, zinc, etching of, with, 1,276,599
—, zinc-lead sulfide ore classified by, 1,448,514; 1,448,515
—, zinc-lead sulfide ore colloided by, 1,448,514; 1,448,515
—, zinc-lead sulfide ore deflocculated by, 1,448,514; 1,448,515
—, zinc plating electrolyte contg., 1,434,693
—, *see also Acetyl arabin; Tragacanth; Persian gum; Senegal gum*
Acacia bark extract, cellulose ether, composition of and, 1,505,044
—, ethyl cellulose, composition of and, 1,505,044
—, filament, artificial, made with, 1,505,044
—, film made with, 1,505,044
—, leather, coating for, made with, 1,505,044
—, methyl cellulose, composition of and, 1,505,044
—, paper, coating for, made with, 1,505,044
—, plastic made with, 1,505,044
—, silk artificial, made with, 1,505,044
—, sizing made with, 1,505,044
—, tannin substitute, 1,505,044
—, textile, coating for, made with, 1,505,044
Acacia harpphylla (Brigalow), dyestuff from, 1,399,014
Acacia leaves, foam bath made with, 1,281,670
Acacia melanoxylan, dyestuff from, 1,399,014
Acacia palybotrya, dyestuff from, 1,399,014
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Acaroid, acaroid, nitrated, made with, 1,151,180
—, explosive made with, 1,151,180
—, nitrated, acetone in, 1,151,180
—, —, composition of, 1,151,180
—, —, explosive made with, 1,151,180
—, —, hydrocarbons in, 1,151,180
—, —, mfr. of, acaroid for, 1,151,180
—, —, —, acetone for, 1,151,180
—, —, —, kerosene for, 1,151,180

Acaroid, nitrated, mfr. of, process for, 1,151,180
—, —, —, turpentine for, 1,151,180
—, —, nitrobenzene in, 1,151,180
—, —, picric acid made with, 1,151,180
—, —, pinene in, 1,151,180
—, —, trinitrophenol in, 1,151,180
—, pyrotechnic compound contg. gum, 1,384,424
—, red, stove polish contg., 1,430,026
—, solvent for, alcohol as, 1,430,026
Acaroid gum, dye made with, 1,193,838
—, gutta percha substitute made with, 1,494,063
—, insulation, electric, made with, 1,494,063
—, paper, dye for, made with, 1,193,838
—, pyrotechnic compound made with, 1,265,205
—, road paving made with, 1,239,160
—, roller, inking, made with, 1,494,063
—, rubber substitute made with, 1,494,063
—, stain made with, 1,193,838
—, strawboard, rye for, made with, 1,193,838
—, tube made with, 1,284,363
—, typewriter platen made with, 1,494,063
—, waterproofing made with, 1,494,063
—, wood, dye for, made with, 1,193,838
Acaroid resin, linoleum made with, 1,225,954
—, oil cloth made with, 1,225,954
—, phonograph record made with, 1,468,608; 1,468,609
—, plastic made with, 1,468,608; 1,468,609
—, *see also Acaroid; Acaroid gum*
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—, diphenylguanidine chloride as, 1,465,743
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—, nitrogen in, varying, 1,465,743
—, tetraphenylmelamine for, 1,465,743
—, tetraphenylmelamine chloride as, 1,465,743
—, urea for, 1,465,743
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Accordine seal brown, silk dyed with, 1,446,860
—, silk, dyeing of using, 1,495,614
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Accumulator, alkaline, see Battery, storage
—, *electric, see Battery, storage*
—, steam held in, 1,292,080
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Accumulators, see Battery, storage
1.2-*Aceanthrenedione, see Aceanthrenequinone*
Aceanthrenequinone, dyestuff made with, 1,216,134
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—, anthraquinone, separation from of, 1,420,198
Acenaphthene, acenaphthenequinone made with, 1,439,500
—, acenaphthylene made with, 1,439,500
—, bi-acenaphthylidene-diketone from, 1,439,500
—, aluminum as catalyst in oxidizing, 1,439,500
—, anthracene impurity, 1,420,198
—, anthraquinone, separation from of, 1,420,198
—, anthraquinone separated from, 1,429,514
Acenaphthene, $\Delta^{8,8'}$-bi(7-acenaphthenone) made with 1,439,500
—, biacenaphthylidene-diketone, 1,439,500
—, cobalt as catalyst in oxidizing, 1,439,500
—, catalytic oxidation of, 1,439,500
—, dyestuff made with, 1,358,490; 1,471,150; 1,496,085
—, dyestuff from sulfur and, 1,358,490
—, iron as catalyst in oxidizing, 1,439,500
—, maleic acid from, 1,377,534
—, maleic acid made with, 1,439,500
—, metal oxide as catalyst in oxidizing, 1,439,500
—, metallic oxide as catalyst in oxidizing, 1,439,500
—, naphthaldehydic acid made with, 1,439,500
—, naphthalic acid, 1,439,500
—, naphthalic anhydride made with, 1,439,500
—, nickel as catalyst in oxidizing, 1,439,500
—, oxidation, catalytic, of, 1,439,500
—, —, cobalt as catalyst for, 1,439,500
—, phthalic acid made with, 1,439,500
—, purification of, aluminum chloride for, 1,441,417
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—, —, sodium hydroxide for, 1,441,417; 1,481,197
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—, sulfur, action of on, 1,358,490
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Acenaphthene-quinone, acenaphthene in mfr. of, 1,439,500
—, aluminum as catalyst in mfr. of, 1,439,500
—, catalyst in mfr. of, 1,439,500
—, cobalt as catalyst in mfr. of, 1,439,500
—, dicarboxylic acids produced from, 1,423,980
Acenaphthene-quinone, iron as catalyst in mfr. of, 1,439,500
—, mfr. of, acenaphthene for, 1,439,500
—, —, air for, 1,439,500
—, —, process for, 1,439,500
—, —, vanadium oxide as catalyst for, 1,439,500
—, metallic oxide as catalyst in mfr. of, 1,439,500
—, naphthalic acid made with, 1,423,980
—, nickel as catalyst in mfr. of, 1,439,500
—, oxidation of, air for, 1,423,980
—, —, hydrogen dioxide for, 1,423,980
—, —, process for, 1,423,980
—, —, sodium dioxide for, 1,423,980
—, vanadium oxide as catalyst in mfr. of, 1,439,500
Acenaphthenequinone dioxime, dyestuff made with, 1,200,848
Acenaphthenequinone oxime, dyestuff made with, 1,200,848
Acenaphthenone, derivatives of, dyestuff made with, 1,497,231
—, dyestuff made with, 1,461,435; 1,497,231
7-Acenaphthenone, 8-*o*-hydroxy-benzal-7-acenaphthenone for, 1,497,231
Acenaphthylene, acenaphthene in mfr. of, 1,439,500
—, aluminum as catalyst in mfr. of, 1,439,500
—, catalyst in mfr. of, 1,439,500
—, cobalt as catalyst in mfr. of, 1,439,500
—, iron as catalyst in mfr. of, 1,439,500
—, mfr. of, acenaphthene for, 1,439,500

Acenaphthylene, mfr. of, air for, 1,439,500
—, —, process for, 1,439,500
—, —, vanadium oxide as catalyst for, 1,439,500
—, metallic oxide as catalyst in mfr. of, 1,439,500
—, nickel as catalyst in mfr. of, 1,439,500
—, vanadium oxide as catalyst in mfr. of, 1,439,500
7,8-Acenaphthylenediol, oxidation of, air for, 1,423,980
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—, oxidation of, hydrogen dioxide for, 1,423,980
—, —, process for, 1,423,980
—, —, sodium dioxide for, 1,423,980
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Acetacetic ester, phenylhydrazine derivatives combined with, 1,338,397
Acetal, acetic anhydride made with, 1,326,040
—, acetyl chloride made with, 1,326,040
—, acid chlorides, organic, made with, 1,326,040
—, *a*-(aminomethyl)-*o*-dihydroxy-benzyl alcohol made with, 1,432,291
—, amino-methyl-norcoralydine made with, 1,176,597
—, anhydride, organic, made with, 1,326,040
—, benzoyl chloride made with, 1,326,040
—, butyric anhydride made with, 1,326,040
—, carbon tetrachloride, freezing point of mixture of and, 1,270,394
—, dichloracetal made with, 1,146,854
—, fats contg., 1,381,564
—, finish remover made with, 1,172,773
—, fire-extinguisher contg., carbon tetrachloride and, 1,270,394
—, mfr. of, acetaldehyde for, 1,312,186
—, —, acetic acid for, 1,312,186
—, —, acetylene and alcohol for, 1,450,982
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—, —, aluminum chloride for, 1,312,186
—, —, aluminum nitrate for, 1,312,186
—, —, beryllium bromide for, 1,312,186
—, —, beryllium chloride for, 1,312,186
—, —, beryllium nitrate for, 1,312,186
—, —, calcium bromide for, 1,312,186
—, —, calcium chloride for, 1,312,186
—, —, calcium nitrate for, 1,312,186
—, —, cerium bromide for, 1,312,186
—, —, cerium bromide, rare earth residue contg., for, 1,312,186
—, —, cerium chloride for, 1,312,186
—, —, cerium chloride, rare earth residue contg., for, 1,312,186
—, —, cerium nitrate for, 1,312,186
—, —, cerium nitrate, rare earth residue contg., for, 1,312,186
—, —, ethyl alcohol for, 1,312,186
—, —, hydrochloric acid for, 1,312,186
—, —, lithium bromide for, 1,312,186
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—, —, magnesium bromide for, 1312,186
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—, —, manganese nitrate for, 1,312,186
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—, —, thorium bromide for, 1,312,186
—, —, thorium bromide, rare earth residue contg., for, 1,312,186
—, —, thorium chloride for, 1,312,186
—, —, thorium chloride, rare earth residue contg., for, 1,312,186
—, —, thorium nitrate for, 1,312,186
—, —, thorium nitrate, rare earth residue contg., for, 1,312,186
—, 11-methyl-norcoralydine made with, 1,176,597
—, phenyl-acetic anhydride made with, 1,326,040
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—, —, alcohol for, 1,426,449
—, —, water for, 1,426,449
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—, acetaldehyde ammonia mfr. from, 1,456,702
—, acetaldol from ethyl alcohol and, mfr. of, 1,450,984
—, acetic acid made with, 1,174,250; 1,179,420; 1,179,421; 1,193,795; 1,230,899; 1,286,255; 1,286,256; 1,308,173; 1,310,743; 1,315,546; 1,409,098; 1,410,207; 1,437,483; 1,472,115; 1,481,326
—, acetic acid from, catalyst for, 1,445,544
—, acetic anhydride, separation of from, 1,298,356
—, acetylene absorbed by, 1,422,182
—, acetylene solvent, 1,419,746
—, acetphenylenediamine, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, aldehyde-ammonia from ammonia and, 1,450,983
—, aldol made with, 1,151,113; 1,220,746; 1,234,156; 1,261,811; 1,437,139; 1,450,984
—, ammonia, mfr. of, 1,456,702
—, aniline, compound of and, 1,417,970
—, —, —, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, —, condensation product of and, 1,467,984
—, apple oil, synthetic, made with, 1,366,541; 1,436,290
—, barium chloride made with, 1,495,538
—, benzidine, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970

Acetaldehyde, benzidine, compound of and rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, benzylamine, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, buttons made with, 1,470,637
—, caoutchouc, *bg*-dimethylerythrene, vulcanization of using, 1,149,580
—, —, erythrene, vulcanization of using, 1,149,580
—, —, isoprene, vulcanization of using, 1,149,580
—, carbon tetrachloride, freezing point of mixture of and, 1,270,394
—, catalysts for mfr., producing, 1,375,345; 1,376,665
—, catalyst in metaldehyde mfr. 1,467,733
—, chlorine derivatives of, formation of, 1,445,168
—, condensation of to aldol, 1,378,562
—, condensation products of, mfr. of, 1,450,984
—, copper, precipitation of with, 1,472,115
—, 2.8-diamino-3.5.7-trimethyl-acridine made with, 1,165,531
—, diethylamine, compound of and, 1,417,970
—, —, —, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, dihydroxy - diphenyl - dimethyl - methane aldehyde condensate made with, 1,158,962; 1,158,963; 1,158,964
—, diphenylamine, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, distiller's slops for producing, 1,344,850; 1,344,851
—, ethyl acetate made with, 1,459,852
—, ethyl alcohol made with, 1,311,824; 1,403,794; 1,410,223
—, ethyl alcohol, separation of from, process for, 1,169,122
—, ethylamine, compound of and, 1,417,970
—, —, —, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
Acetaldehyde, ethylamine, compound of and, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, ethylene recovery with, 1,422,184
—, finish remover made with, 1,167,469
—, fire-extinguisher contg., carbon tetrachloride and, 1,270,394
—, formation from ethyl alcohol, 1,412,233; 1,464,153
—, formation of in glycerol fermentation of sugars, 1,425,838
—, fuel, motor, contg., 1,514,977
—, gear made with, 1,370,666
—, gutta percha, vulcanization accelerator for, made with, 1,467,984
—, hydroxylamine, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, insulation, electric, made with, 1,370,666; 1,397,144; 1,470,637
—, iron, rust removal from using, 1,470,225
—, ivory substitute made with, 1,514,509
—, ketone-aldehyde condensate made with, 1,482,929
—, mfr. of, 1,384,842; Re-15,434; 1,388,841; 1,400,205; 1,426,449; 1,450,982; 1,454,609
—, —, acetaldehyde for, 1,315,546
—, —, acetic acid, glacial, for, 1,400,205; 1,454,609
—, —, acetylene for, 1,151,928; Re-14,063; 1,151,929; Re-14,064; 1,184,177; 1,185,499; 1,185,500; 1,213,486; 1,213,487; 1,244,901; 1,244,902; 1,247,270; 1,310,743; 1,310,984; 1,319,365; 1,343,715; 1,355,299; 1,384,842; 1,421,743; 1,428,668; 1,431,301; 1,436,550; 1,471,058; 1,472,115; 1,477,951; 1,485,706; 1,489,915; 1,501,502; 1,514,977
—, —, acetylene, catalyst for, 1,355,299
—, —, acid for, 1,129,542
—, —, alcohol for, 1,143,714; 1,400,203; 1,400,204; 1,400,205; 1,454,609
—, —, alcohol and catalysts for, 1,396,358
—, —, alkali for, 1,511,754
—, —, aluminum as catalyst for, 1,244,901
—, —, aluminum oxide as catalyst for, 1,355,299
—, —, aluminum salts as catalyst for, 1,355,299
—, —, alundum apparatus for, 1,124,347
—, —, alundum as catalyst for, 1,124,347
—, —, amines for, 1,511,754
—, —, ammonia, effect of on, 1,310,743
—, —, ammonium carbonate for, 1,511,754
—, —, ammonium phosphate for, 1,511,754
—, —, ammonium sulfate for, 1,511,754
—, —, apparatus for, 1,124,347; 1,129,542; 1,234,886; 1,247,270; 1,310,743; 1,310,984; 1,315,543; 1,315,546; 1,319,365; 1,400,203; 1,400,204; 1,400,205; 1,400,247; 1,431,301; 1,437,483; 1,454,609; 1,471,058; 1,485,706; 1,501,502

Acetaldehyde, mfr. of, asbestos for, 1,244,901; 1,244,902; 1,471,058
—, —, asbestos as catalyst for, 1,355,299
—, —, bacteria, lactic acid, for, 1,511,754
—, —, barium chloride for, 1,511,754
—, —, benzene-sulfonic acid for, 1,213,486; 1,213,487
—, —, borax for, 1,213,486
—, —, bromine for, 1,234,886
—, —, cadmium salt for, 1,310,743
—, —, calcium bisulfite for, 1,129,542
—, —, calcium chloride for, 1,234,886; 1,511,754
—, —, calcium chloride as catalyst for, 1,298,356
—, —, calcium hydroxide for, 1,129,542
—, —, calcium hypochlorite for, 1,234,886
—, —, calcium oxide for, 1,501,502
—, —, carbon, decolorizing, for, 1,511,754
—, —, catalyst for, 1,388,841; 1,400,203; 1,400,204; 1,437,483; 1,454,609
—, —, —, mfr. of, acetic acid for, 1,375,345
—, —, —, —, air for, 1,375,345
—, —, —, —, ammonia for, 1,376,665
—, —, —, —, ammonium hydroxide for, 1,400,203; 1,400,247
—, —, —, —, boric acid for, 1,487,020
—, —, —, —, boron oxides for, 1,487,020
—, —, —, —, brick, fire-, for, 1,487,020
—, —, —, —, carbonates for, 1,487,020
—, —, —, —, charcoal for, 1,400,203; 1,400,205; 1,400,247
—, —, —, —, chromium for, 1,375,345; 1,376,665; 1,400,203; 1,400,205; 1,400,247
—, —, —, —, chromium oxide for, 1,400,205
—, —, —, —, clay for, 1,487,020
—, —, —, —, clay, burnt, for, 1,487,020
—, —, —, —, copper for, 1,375,345; 1,376,665; 1,400,203; 1,400,205; 1,400,247
—, —, —, —, copper hydroxide for, 1,400,203; 1,400,247
—, —, —, —, copper(ic) nitrate for, 1,376,665; 1,400,203; 1,400,247
—, —, —, —, copper oxide for, 1,400,205
—, —, —, —, ethyl alcohol for, 1,400,247
—, —, —, —, hydrogen for, 1,376,665; 1,400,203; 1,400,205
—, —, —, —, iron for, 1,375,345; 1,376,665; 1,400,203; 1,400,205; 1,400,247
—, —, —, —, iron oxide for, 1,400,205
—, —, —, —, kieselguhr for, 1,487,020
—, —, —, —, magnesia for, 1,487,020
—, —, —, —, metal nitrate for, 1,376,665
—, —, —, —, methyl alcohol for, 1,400,247
—, —, —, —, nitrates for, 1,487,020
—, —, —, —, nickel for 1,375,345; 1,376,665; 1,400,203; 1,400,205
—, —, —, —, nickel hydroxide for, 1,400,203
—, —, —, —, nickel nitrate for, 1,376,665; 1,400,203; 1,400,247
—, —, —, —, nickel oxide for, 1,400,205
—, —, —, —, nitric acid for, 1,376,665
—, —, —, —, oxides for, 1,487,020
—, —, —, —, phosphoric acid for, 1,487,020
—, —, —, —, phosphorous oxides for, 1,487,020
—, —, —, —, porcelain for, 1,400,203; 1,400,205; 1,400,247
—, —, —, —, process for, 1,375,345; 1,376,665; 1,400,203; 1,400,205; 1,400,247; 1,487,020
Acetaldehyde, mfr. of, catalyst, mfr. of, pumice for, 1,400,203; 1,400,205; 1,400,247
—, —, —, —, silica for, 1,487,020
—, —, —, —, terra cotta for, 1,400,203; 1,400,205; 1,400,247
—, —, catalytic apparatus for, 1,396,718
—, —, catalyzers for, 1,400,247
—, —, cellulose for, 1,129,542; 1,471,058
—, —, cellulose ester for, 1,471,058
—, —, cellulose sulfite liquor for, 1,143,714
—, —, cerium salt for, 1,315,543; 1,315,546
—, —, cerium(ous) salt for, 1,319,365
—, —, charcoal, activated, as catalyst for, 1,355,299
—, —, charcoal, nut shell, as catalyst for, 1,355,299
—, —, —, pit, as catalyst for, 1,355,299
—, —, charcoal as catalyst for, 1,244,901
—, —, charcoal as catalyst carrier for, 1,437,483; 1,454,609
—, —, chlorine for, 1,234,886
—, —, chromate for, 1,151,929; Re-14,064
—, —, chromic acid for, 1,151,929; Re-14,064
—, —, chromium as catalyst for, 1,400,204; 1,437,483; 1,454,609
—, —, chromium oxide as catalyst for, 1,400,204
—, —, chromium(ic) salt for, 1,319,365
—, —, chromium(ous) salt for, 1,319,365
—, —, clay tube for, 1,234,886
—, —, copper for, 1,152,098
—, —, copper acetate as catalyst for, 1,400,204
—, —, copper as catalyst for, 1,124,347; 1,400,204; 1,437,483; 1,454,609
—, —, copper oxide as catalyst for, 1,124,347; 1,355,299; 1,400,204
—, —, copper salts as catalyst for, 1,355,299
—, —, copper tube for, 1,234,886
—, —, crotonic aldehyde as by-product of, 1,310,743
—, —, "crucible mixture" tube for, 1,234,886
—, —, earthenware apparatus for, 1,124,347
—, —, electrode for, 1,471,058
—, —, ethyl alcohol for, 1,124,347; 1,193,795; 1,375,345; 1,376,665; 1,396,389; 1,400,203; 1,400,204; 1,400,205; 1,400,247; 1,437,483; 1,454,609; 1,487,020
—, —, ethylene for, 1,234,886; 1,315,543; 1,315,546
—, —, ethylidine diacetate for, 1,152,098; 1,298,356; 1,306,963; 1,429,650
—, —, ferrosilicon for, 1,471,058
—, —, fructose for, 1,511,754
—, —, glucose for, 1,511,754
—, —, gold for, 1,471,058
—, —, graphite for, 1,471,058
—, —, hydrocarbon for, 1,234,886
—, —, hydrogen sulfide as catalyst poison during, 1,244,901
—, —, hydrogen sulfide effect of on, 1,310,743
—, —, hydrosulfites for, 1,511,754
—, —, hyposulfites for, 1,511,754
—, —, iodine for, 1,234,886
—, —, iron for, 1,471,058
—, —, iron as catalyst for, 1,400,204; 1,437,483; 1,454,609
—, —, iron acetate as catalyst for, 1,400,204

Acetaldehyde, mfr. of, iron alloy, aluminum in, for, 1,471,058
—, —, iron alloy, nickel in, for, 1,471,058
—, —, iron compounds for, 1,511,754
—, —, iron(ic) compound for, 1,501,502
—, —, iron(ous) compound for, 1,501,502
—, —, iron oxide as catalyst for, 1,355,299; 1,400,204
—, —, iron(ic) oxide used in, 1,436,550
—, —, iron(ic) oxide as catalyst for, 1,436,550
—, —, iron(ous) oxide as catalyst for, 1,244,901
—, —, iron salt as catalyst for, 1,355,299
—, —, iron(ic) salt for, 1,319,365
—, —, iron(ous) salt for, 1,319,365
—, —, iron sulfate for, 1,511,754
—, —, iron(ic) sulfate for, 1,151,928; Re-14,063
—, —, iron(ous) sulfate for, 1,477,951; 1,511,754
—, —, iron tube for, 1,234,886
—, —, lead cathode for, 1,431,301
—, —, lead oxide as catalyst for, 1,355,299
—, —, lead peroxide for, 1,315,546
—, —, lead peroxide anode for, 1,315,543
—, —, lead salts as catalyst for, 1,355,299
—, —, lime for, 1,511,754
—, —, magnesia for, 1,511,754
—, —, magnesium acetate for, 1,511,754
—, —, magnesium chloride for, 1,511,754
—, —, magnesium sulfate for, 1,511,754
—, —, magnetite for, 1,315,546
—, —, magnetite anode for, 1,315,543
—, —, maltose for, 1,511,754
—, —, manganese(ic) salt for, 1,319,365
—, —, manganese(ous) salt for, 1,319,365
—, —, manganese sulfate for, 1,511,754
—, —, mercurous sulfate for, 1,310,743
—, —, mercury for, 1,151,928; Re-14,063; 1,151,929; Re-14,064; 1,184,177; 1,247,270; 1,319,365; 1,431,301; 1,489,915; 1,501,502
—, —, mercury(ic) anode for, 1,315,546
—, —, mercury as catalyst for, 1,436,550
—, —, mercury catalyst for, regeneration of, 1,293,863; 1,319,365
—, —, mercury cathode for, 1,431,301
—, —, mercury compound for, 1,185,500; 1,310,743; 1,310,984; 1,471,058; 1,489,915
—, —, mercury oxide for, 1,151,928; Re-14,063; 1,151,929; Re-14,064; 1,431,301; 1,514,977 1,431,301
—, —, mercury oxide as catalyst for, 1,355,299
—, —, mercury(ic) oxide for, 1,319,365; 1,489,915
—, —, mercury(ic) oxide catalyst for, 1,213,486; 1,213,487; 1,355,299; 1,379,465; 1,436,550; 1,477,951
—, —, mercury(ic) oxide regenerated during, 1,477,951
—, —, mercury salt for, 1,151,928; Re-14,063; 1,151,929; Re-14,064; 1,431,301; 1,514,977
—, —, mercury salt, as catalyst for, 1,213,486; 1,213,487; 1,355,299; 1,436,550
—, —, mercury(ic) salt for, 1,184,177
—, —, mercury(ic) salts as catalyst for, 1,355,299; 1,436,550
—, —, mercury(ous) salt for, 1,184,177
—, —, mercury sludge (from acetaldehyde mfr.), for, 1,185,499
—, —, *mercury sludge formed during, see Mercury Sludge (from acetaldehyde mfr.)*
Acetaldehyde, mfr. of, mercury sulfate for, 1,151,928; Re-14,063; 1,151,929; Re-14,064; 1,431,301
—, —, mercury sulfate as catalyst for, 1,384,842
—, —, mercury(ic) sulfate for, 1,152,098; 1,315,543; 1,501,502
—, —, metaboric acid as catalyst for, 1,298,356
—, —, metaboric acid in petroleum as catalyst for, 1,298,356
—, —, metal oxide as catalyst for, 1,355,299
—, —, metal salts as catalyst for, 1,355,299
—, —, molasses for, 1,511,754
—, —, molybdic acid as catalyst for, 1,244,901; 1,244,902
—, —, molybdenum oxide as catalyst for, 1,355,299
—, —, molybdenum salts as catalyst for, 1,355,299
—, —, monosodium orthophosphate as catalyst for, 1,298,356
—, —, naphtha for, 1,184,177
—, —, natural gas for, 1,234,886
—, —, nickel as catalyst for, 1,124,347; 1,400,204; 1,437,483; 1,454,609
—, —, nickel acetate as catalyst for, 1,400,204
—, —, nickel lined apparatus for, 1,124,347
—, —, nickel oxide as catalyst for, 1,124,347; 1,355,299; 1,400,204
—, —, nickel oxide, NiO, as catalyst for, 1,244,901
—, —, nickel salts as catalyst for, 1,355,299
—, —, oil for, 1,234,886
—, —, oxide for, 1,471,058
—, —, oxygen for, 1,477,951
—, —, palladium lined apparatus for, 1,124,347
—, —, paper for, 1,471,058
—, —, peroxide for, 1,471,058
—, —, petroleum for, 1,234,886
—, —, petroleum residuum for, 1,234,886
—, —, phosphates for, 1,511,754
—, —, phosphine, effect of on, 1,310,743
—, —, phosphine as catalyst poison during, 1,244,901
—, —, phosphoric acid for, 1,213,486; 1,213,487; 1,319,365; 1,431,301; 1,471,058
—, —, phosphorous compounds as catalyst poison during, 1,244,901
—, —, platinum for, 1,471,058
—, —, platinum anode for, 1,315,543; 1,315,546; 1,431,301
—, —, platinum cathode for, 1,431,301
—, —, platinum lined apparatus for, 1,124,347
—, —, porcelain as catalyst carrier for, 1,437,483; 1,454,609
—, —, potassium bichromate for, 1,143,714
—, —, potassium bisulfate for, 1,152,098; 1,213,487
—, —, potassium phosphate, acid for, 1,213,487
—, —, potassium sulfate for, 1,511,754
—, —, process for, 1,124,347; 1,129,542; 1,151,928; Re-14,063; 1,151,929; Re-14,064; 1,152,098; 1,184,177; 1,185,499; 1,185,500; 1,193,795; 1,213,486; 1,213,487; 1,234,886; 1,244,901; 1,244,902; 1,247,270; 1,310,743; 1,310,984; 1,315,543; 1,315,546; 1,319,365; 1,355,299; 1,375,345; 1,376,665; 1,384,842; 1,400,203; 1,400,204; 1,400,205; 1,400,247;

1,431,301; 1,436,550; 1,437,483; 1,454,609; 1,471,058; 1,477,951; 1,485,706; 1,487,020; 1,489,915; 1,501,502; 1,511,754; 1,514,977
Acetaldehyde, mfr. of, pumice for, 1,152,098
—, —, pumice as catalyst carrier for, 1,437,483; 1,454,609
—, —, saccharose for, 1,511,754
—, —, silica as catalyst for, 1,355,299
—, —, silicon dioxide as catalyst for, 1,355,299
—, —, silicon iron apparatus for, 1,361,974
—, —, sil-o-cel as catalyst for, 1,355,299
—, —, sodium acetate for, 1,511,754
—, —, sodium bicarbonate for, 1,511,754
—, —, sodium bisulfate for, 1,213,487
—, —, sodium borate for, 1,213,486
—, —, sodium carbonate for, 1,511,754
—, —, sodium hyposulfite for, 1,511,754
—, —, sodium(mono) orthophosphate as catalyst for, 1,298,356
—, —, sodium phosphate for, 1,213,486; 1,511,754
—, —, sodium phosphate, acid, for, 1,213,487
—, —, sodium pyrosulfate as catalyst for, 1,298,356
—, —, sodium sulfite for, 1,511,754
—, —, starch, saccharified, for, 1,511,754
—, —, steam for, 1,244,901; 1,244,902; 1,355,299
—, —, steel for, 1,471,058
—, —, steel tube for, 1,234,886
—, —, sugar for, 1,511,754
—, —, sugar, grape, for, 1,511,754
—, —, —, invert, for, 1,511,754
—, —, sulfites for, 1,511,754
—, —, sulfonic acid for, 1,436,550
—, —, sulfoxylates for, 1,511,754
—, —, sulfuric acid for, 1,129,542; 1,151,928; Re-14,063; 1,151,929; Re-14,064; 1,152,098; 1,184,177; 1,185,499; 1,185,500; 1,213,486; 1,213,487; 1,234,886; 1,247,270; 1,310,743; 1,310,984; 1,315,543; 1,315,546; 1,319,365; 1,384,842; 1,431,301; 1,436,550; 1,477,951; 1,489,915; 1,501,502
—, —, sulfuric acid as catalyst for, 1,298,356
—, —, sulfurous acid for, 1,129,542
—, —, syrup for, 1,511,754
—, —, tar oil for, 1,234,886
—, —, terra cotta as catalyst carrier for, 1,437,483; 1,454,609
—, —, thioacetic acid as catalyst for, 1,298,356
—, —, thread for, 1,471,058
—, —, tin oxide as catalyst for, 1,355,299
—, —, tin salts as catalyst for, 1,355,299
—, —, turpentine oil for, 1,234,886
—, —, water for, 1,129,542; 1,184,177; 1,454,609
—, —, wood for, 1,129,542
—, —, wool for, 1,471,058
—, —, yeast for, 1,511,754
—, —, zeolite, artificial, as catalyst for, 1,193,795
—, —, zinc oxide, as catalyst for 1,244,901; 1,355,299
—, —, zinc salt for, 1,310,743
—, —, zinc salts as catalyst for, 1,355,299
—, mercury(ic) oxide reduced with, 1,436,550
—, metaldehyde made from, 1,432,387; 1,467,733
—, metaldehyde, paraldehyde, removal of from using, 1,432,387
—, methylamine, compound of and, balata, vulcanization of using, 1,417,970
Acetaldehyde, methylamine, compound of, and gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, N-methyl-aniline, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, molded article made with, 1,370,666; 1,397,144; 1,398,149; 1,470,637; 1,500,303; 1,514,509
—, 2-naphthylamine, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, *m*-nitraniline, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, *p*-nitraniline, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, oxidation of, 1,409,098
—, —, air for, 1,410,207
—, paracetaldehyde, from, 1,300,451
—, paraldehyde, metaldehyde, removal from of using, 1,432,387
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—, *N*-(*p*-arsonophenyl)glycinamide made with, 1,280,119; 1,280,124
—, *N*-(*p*-arsonophenyl)glycinanilide made with, 1,280,121; 1,280,126
—, *N*-(*p*-arsonophenyl)glycyl-*m'*-aminophenol made with, 1,280,121
—, *N*-(*p*-arsonophenyl)glycyl-*m'*-aminophenol, sodium salt of, made with, 1,280,121
—, *N*-(*p*-arsonophenyl)-*a*-phenyl-glycinureide made with, 1,280,120; 1,280,125
—, aryl derivatives of, vinyl esters prepared with, 1,425,130
—, banana plant, treatment of with 1,271,591
—, barium nitrate made with, 1,273,824
—, battery, dry, made with, 1,283,292; 1,303,844; 1,366,191
—, —, storage, rejuvenator for, contg., 1,468,341
—, bean flour decolorized with, 1,314,298
—, bean flour deodorized with, 1,314,298
—, belting made with, 1,180,902
—, 4-benzoyl-1-hydroxy-2-naphthoic acid made with, 1,516,376
—, benzyl acetate made with, 1,306,221
—, beverage made with, 1,164,193
—, beverage contg., 1,401,700
—, billiard ball made with 1,482,358
—, 4.4'-bis(4-acetamino-2.3-dimethyl-5-keto-1-pyrazolyl)-arsenobenzene made with, 1,507,694
—, *N.N'*-bis(4-amino-1-naphthyl)-*m*-benzene-disulfonamide made with 1,442,818
—, *N.N'*-bis(4-amino-2-sulfo-1-naphthyl)-*m*-benzenedisulfonamide made with, 1,442,818
—, *N.N'*-bis(4-amino-6-sulfo-1-naphthyl)-*m*-benzenedisulfonamide made with 1,442,818
Acetic acid, *N.N'*-bis(4-amino-7-sulfo-1-naphthyl)-*m*-benzenedisulfonamide made with, 1,442,818
—, *N.N'*-bis(4-amino-8-sulfo-1-naphthyl)-*m*-benzenedisulfonamide made with, 1,442,818
—, b.b-bis-(4-hydroxy-phenyl)-ethylamine made with, 1,432,291
—, 2.2-bis(hydroxy-phenyl)propane solvent, 1,225,748; 1,225,749
—, bleaching compound made with, 1,394,151
—, bleaching solution mfr. with, 1,414,039
—, blood antitoxin made with, 1,270,270
—, blood product made with, 1,380,427
—, blue print paper made with, 1,500,433
—, board made with, 1,245,984
—, boat mending composition made with, 1,389,084
—, boiler scale formation prevented using, 1,405,783
—, borneol made with, 1,415,340; 1,426,036
—, *iso*-bornyl acetate prepared with, 1,372,382
—, brass, etching of, with, 1,276,599
—, bread made with, 1,355,127
—, bread, bran, made with, 1,148,815
—, —, germ, made with, 1,148,815
—, 2-brom-anthraquinone made with, 1,434,980
—, brom-methyl-2-phenyl-4-quinolyl ketone made with, 1,434,306
—, button made with, 1,452,086
—, butyric anhydride made with, 1,153,402
—, by-product in charcoal mfr., 1,458,410
—, cacao bean, tannic acid, removal of from, using, 1,244,995
—, cacao bean oil made with, 1,244,995
—, calcium acetate from, 1,314,765; 1,360,046
—, calcium carbonate solvent, 1,463,864
—, calcium hydroxide made with, 1,277,855
—, calcium hypochlorite treated with, 1,413,154
—, camphol made with, 1,478,690
—, cane, treatment of with, 1,271,591
—, caoutchouc, synthetic, made with, 1,185,651
—, carbohydrate, nitrated, made using, 1,504,986
—, —, —, stabilized using, 1,504,986
—, —, decolorizing, made with, 1,521,541
—, carbon, decolorizing regenerated with, 1,326,159
—, carbon, vegetable regenerated with, 1,326,159
—, carbon tetrachloride, freezing point of mixture of and, 1,270,397
—, casein, vitamine free, made with, 1,505,551
—, casein plastic contg., mfr. of, 1,452,086
—, casein precipitated by, 1,341,040; 1,360,356
—, casein solvent, 1,376,652
—, castor oil made with, 1,244,995
—, castor oil, sulfonated, neutralized with, 1,309,292
—, castor oil bean, tannic acid, removal of from, using, 1,244,995
—, catalyst, for mfr. of acetaldehyde, made with, 1,375,345
—, —, for mfr. of ammonia, made with, 1,206,155
—, —, copper arsenate made with, 1,183,316
—, —, lead arsenate made with, 1,183,316; 1,302,186
—, —, zinc arsenate made with, 1,183,316
—, —, white lead made with, 1,302,186
—, catalyst in ester mfr., 1,400,849

Acetic acid, catalyst in glycol preparation, 1,454,604
—, catalysts prepared with, 1,375,345
—, cattle feed made with, 1,244,995
—, celluloid, decorating of using, 1,235,037
—, —, solvent for, made with, 1,158,217
—, —, —, contg., secondary alcohol esters of, 1,158,217
—, celluloid cement made with, 1,505,820
—, celluloid solvent, 1,342,267; 1,425,510
—, celluloid substitute made with, 1,245,818; 1,245,976; 1,245,983; 1,245,984; 1,275,324; 1,280,862; 1,360,356; 1,363,763; 1,427,645
—, cellulose acetate made with, 1,173,336; 1,191,439; 1,236,578; 1,236,579; 1,263,119; 1,265,216; 1,275,884; 1,278,885; 1,280,974; 1,280,975; 1,296,847; 1,330,543; 1,338,661; 1,347,801; 1,389,250; 1,396,878; 1,445,382; 1,456,781; 1,466,401; 1,478,137; 1,494,816; 1,494,830; 1,503,835; 1,514,274; 1,516,225
—, cellulose acetate, dyeing of using, 1,517,591; 1,517,709
—, —, hydrated solvent, 1,316,311
—, cellulose acetate coagulating bath contg., 1,467,493
—, cellulose acetate mfr., recovery from of, 1,516,225
—, cellulose acetate solvent, 1,275,884; 1,316,311; 1,342,267; 1,363,763; 1,420,028; 1,421,341; 1,457,131; 1,467,493;
—, cellulose acetated with, 1,379,699
—, cellulose butyrate made with, 1,474,574
—, cellulose dissolved in phosphoric acid and, 1,296,847
—, cellulose dissolved in sulfuric acid and, 1,296,847
—, cellulose esters, solvent for made with, 1,283,183
—, cellulose ester solvent, 1,316,311; 1,342,267; 1,389,084
—, cellulose ether solvent, 1,389,084
—, cellulose formate solvent, 1,316,311
—, cellulose nitrate explosive contg., 1,303,115
—, cellulose nitrate, solvent for, made with, 1,158,217; 1,283,183; 1,365,051; 1,365,052
—, —, —, contg. secondary alcohol esters of, 1,158,217
—, cellulose nitrate solvent, 1,147,850; 1,148,258; 1,202,712; 1,299,479; 1,316,311; 1,321,611; 1,321,633; 1,321,634; 1,323,624; 1,342,267; 1,356,440; 1,421,341
—, cellulose nitro-acetate made with, 1,286,025
—, cellulose prepared for acetylation with, 1,338,661
—, cellulose prepared for butyration with, 1,425,580; 1,425,581
—, cellulose solvent contg., 1,301,652
—, cellulose sulfite liquor treated with, 1,298,478
—, ceramic ware, cleaner for, contg., 1,494,147
—, chloracetic acid made with, 1,144,237
—, 2-chlor-anthracene made with, 1,434,980
—, chloranthracene solvent, 1,455,448
—, 2-chlor-anthraquinone made with, 1,434,980
—, *chloro-derivatives of, see Chloroacetic acid*
—, 4-chlor-2.6-dinitro-aniline made with, 1,423,494
Acetic acid, 4-chlor-2.6-dinitro-*m*-phenylene-diamine made with, 1,423,494
—, chlorinated, cellulose acetate mfr. with, 1,330,543
—, 1-chloronaphthalene-3.8-dithioglycolic acid solvent, 1,444,277
—, 2-chlor-4-nitro-aniline made with, 1,423,494
—, 4-chlor-2-nitro-aniline made with, 1,423,494
—, chrome green made with, 1,484,088
—, chrome orange made with, 1,484,088
—, chrome red made with, 1,484,088
—, chrome yellow made with, 1,484,088
—, chromium compound made with, 1,162,210
—, cholesterol solvent, 1,284,724
—, chrysarobin solvent, 1,417,771
—, cigarette holder made with, 1,482,357; 1,482,358
—, clay purified using, 1,029,579; Re-14,583
—, cleaner made with, 1,201,181; 1,494,147
—, cloth, cement for, made with, 1,482,357
—, cocoanut, tannic acid, removal of from, using, 1,244,995
—, cocoanut oil made with, 1,244,995
—, compound, $C_{16}H_{17}O_4N_3$, made with, 1,151,885
—, —, $C_{30}H_{18}O_4N_4$, made with, 1,285,727
—, —, $C_{35}H_{26}O_{17}N_4S_4$, made with, 1,308,071
—, concentration of, 1,291,025
—, —, alum for, 1,492,717; 1,492,718
—, —, aluminum sulfate for, 1,492,717; 1,492,718
—, —, ammonium aluminum sulfate for, 1,492,717; 1,492,718
—, —, apparatus for, 1,291,025
—, —, butyric acid for, 1,477,076
—, —, calcium chloride for, 1,291,025; 1,492,717; 1,492,718
—, —, carbon tetrachloride for, 1,477,076
—, —, chlorbenzene for, 1,477,076
—, —, copper sulfate for, 1,492,717; 1,492,718
—, —, esters for, 1,477,076
—, —, ethers for, 1,477,076
—, —, hydrocarbon, acetylene, for, 1,477,076
—, —, —, —, halogen derivatives of, for, 1,477,076
—, —, —, —, nitrogen derivatives of, for, 1,477,076
—, —, —, olefin, for, 1,477,076
—, —, —, —, halogen derivatives of, for, 1,477,076
—, —, —, —, nitrogen derivatives of, for, 1,477,076
—, —, —, paraffin, for, 1,477,076
—, —, —, —, halogen derivatives of, for, 1,477,076
—, —, —, —, nitrogen derivation of, for, 1,477,076
—, —, salt cake for, 1,492,717; 1,492,718
—, —, iron sulfate for, 1,492,717; 1,492,718
—, —, petroleum distillate for, 1,477,076
—, —, process for, 1,477,076; 1,492,717; 1,492,718
—, —, xylene for, 1,477,076
—, condenser electrolyte for contg., 1,270,784
—, condiment made with, 1,324,538
—, copper, etching of with, 1,276,599
—, copper and nickel acetates from, 1,390,684
—, cordial made with, 1,158,217
—, cordial contg. secondary alcohol esters of, 1,158,217

Acetic acid, corn, freezing of mixture of and, 1,281,828
—, —, shelled, mold prevented in with, 1,311,709
—, —, treatment of with, 1,281,828
—, cotton, dyeing of using, 1,199,273; 1,485,790
—, —, fabric contg., dyeing of using, 1,517,709
—, cotton bleached with, 1,404,242
—, cotton dyed with, 1,271,067
—, cotton dyed with acridine derivatives in, 1,427,431
—, cotton fabric, wool-like effects on, made using, 1,518,931
—, cotton seed, tannic acid, removal of from, using, 1,244,995
—, cotton seed oil made with, 1,244,995
—, crayon made with, 1,131,432
—, cream whipped using, 1,287,395
—, *crude, see also Pyroligneous acid*
—, cuprammonium cellulose precipitated with, 1,269,340
—, cyanides made with, 1,206,155
—, diacetin made with, 1,509,864
—, diacetyldioxyphenylnitroethanol reduced by zinc and, 1,399,144
—, (??)-dianilino-(??)-dichlor-*N.N'*-dimethylquinone made with, 1,209,163
—, 6.8-dibrom-2-(2'-thienyl)-cinchoninic acid made with, 1,350,408
—, dichloranthracene solvent, 1,455,448
—, 2.7-dichlor-anthraquinone made with, 1,434,980
—, 5.7-dichloroisatin solvent, 1,434,983
—, 2.3-dichlor-juglone made with, 1,327,260
—, 4.5-dichlor-2-nitro-aniline made with, 1,423,494
—, die plate made with, 1,376,365; 1,376,366; 1,376,368; 1,376,369
—, 5'.7'-dichlor-6-nitro-indirubin made with, 1,266,092
—, dihydrodiethylsulfide acetic ester mfr. from, 1,422,869
—, dihydroxycodeinone made with, 1,468,805
—, 5.5'-dimethyldibromindigo, reaction with, 1,412,038
—, 2.4-dinitro-aniline made with, 1,423,494
—, 4.6-dinitro-*m*-phenylenediamine made with, 1,423,494
—, distillation of, apparatus for, 1,196,329; 1,477,491
—, —, granite, Quincy, apparatus for, 1,477,491
—, —, process for, 1,196,329
—, distiller's slops for producing, 1,344,850; 1,344,851
—, distillery waste, producing from, 1,396,006
—, distilling, vacuum for, 1,420,399
—, door knobs made with, 1,482,358
—, drying oil made with, 1,254,866
—, decolorizing with carbon and, 1,447,461
—, decolorizing-carbon from bagasse with, 1,402,007
—, deep-sea fiber, spinning of using, 1,232,374
—, detergent made with, 1,241,043; 1,494,147
—, detonator made with, 1,498,001
—, developer for dye contg., 1,311,150
—, dextrin made with, 1,283,839; 1,284,120
—, dye contg., 1,367,930
Acetic acid, dye, vegetable, applied to fabric using, 1,271,067
—, dyes printed with, 1,426,299
—, dye bath constituent, 1,333,700
—, dye bath contg., 1,417,869; 1,441,240
—, dye compound contg., 1,358,456
—, dye developer contg., 1,311,150
—, dyeing using, 1,199,273; 1,414,029; 1,414,030; 1,414,031
—, dyeing, celluose acetate in presence of, 1,378,443
—, dyeing process using, 1,333,700; 1,417,869
—, dyestuff made with, 1,127,027; 1,145,072; 1,149,575; 1,160,471; 1,169,267; 1,188,543; 1,193,829; 1,209,163; 1,218,655; 1,221,849; 1,228,089; 1,245,694; 1,253,252; 1,261,858; 1,276,307; 1,285,726; 1,285,727; 1,308,071; 1,333,807; 1,338,506; 1,340,696; 1,363,886; 1,375,701; 1,394,823; 1,408,405; 1,429,781; 1,429,782; 1,436,770; 1,470,554; 1,470,555; 1,478,015; 1,478,039; 1,483,084; 1,500,915; 1,506,316; 1,506,514; 1,518,847
—, dyestuff, azo, made with, 1,323,285
—, dyestuff, printing paste for, contg., 1,126,387; 1,264,604
—, dyestuffs developed with, 1,426,299
—, electrolyte contg., 1,376,365; 1,376,366; 1,376,367; 1,376,368; 1,376,369
—, electrolyte, etching, contg., 1,289,022
—, electrolytic cell, electrolyte for, contg., 1,270,784
—, empyreumatic compounds, removal of from, permanganate for, 1,210,792
—, —, —, process for, 1,210,792
—, —, —, sulfuric acid for, 1,210,792
—, enamel, undercoating composition for, made with, 1,425,510
—, ergot extracted with, 1,292,394
—, esparto, treatment of with, 1,271,591
—, essential oils contg., secondary alcohol esters for, 1,158,217
—, esters made with, 1,365,050; 1,365,051; 1,365,052; 1,478,498
—, esters of, finish remover made with, 1,147,852
—, —, mfr. of, process for, 1,147,852
—, etching electrolyte contg., 1,288,775
—, etching solution contg., 1,418,253
—, ethyl acetate from, 1,403,224; 1,403,225; 1,425,624; 1,425,625; 1,426,457
—, ethyl alcohol made with, 1,438,123
—, ethyl cellulose made with, 1,188,376
—, ethyl cellulose solvent, 1,188,376
—, ethyl ether contg., impurity of, 1,189,602
—, ethylidine diacetate from, 1,304,989; 1,306,964; 1,351,990; 1,425,130
—, ethylidine diacetate from acetylene and, 1,351,990; 1,450,982
—, ethylidene diacetate from vinyl acetate and, 1,429,650
—, explosive contg., 1,306,440
—, extract, flavoring made with 1,324,538
—, fabric, removing shine from using, 1,480,352
—, feathers, dyeing of using, 1,485,790
—, ferns bleached with calcium hypochlorite and 1,410,226
—, fibers, animal, treatment of using, 1,197,495

Acetic acid, fibers, spinning of using, 1,232,374
—, fibers treated with, 1,350,621
—, filament made with, 1,180,902
—, filament, artificial, made with, 1,497,321
—, —, —, viscose, precipitated with, 1,260,508
—, film made with, 1,363,763
—, film, colorphotography, stained with, 1,390,252
—, film, motion picture, made using, 1,170,506
—, —, —, colored, made with, 1,170,540; 1,193,879
—, —, photographic, dyeing of, using, 1,214,940
—, film cement made with, 1,505,820
—, film dyed with, 1,305,962
—, flavoring extracts made with, 1,158,217
—, flavoring extracts contg. secondary alcohol esters of 1,158,217
—, flax, treatment of with, 1,271,591
—, flax treated with solutions of, 1,355,571
—, flies, lure for contg., 1,168,552
—, floor covering made with, 1,245,984
—, flotation with, 1,457,680
—, finish remover made with, 1,145,365; 1,167,469; 1,167,641; 1,184,164
—, fire-extinguisher made with, 1,276,742; 1,428,207
—, —, carbon tetrachloride and, 1,270,397
—, fire-proofing made with, 1,276,742
—, fish-bait contg., 1,291,614
—, food, cattle, mold prevented in, with, 1,311,709
—, —, mold prevented in with, 1,311,709
—, —, pigeon, mold prevented in with, 1,311,709
—, —, poultry, mold prevented in with, 1,311,709
—, food product made with, 1,245,818; 1,275,324; 1,380,427
—, food product, vitamin free, made with, 1,505,551
—, formaldehyde-urea condensate made with, 1,482,357; 1,482,358
—, formates made with, 1,206,155
—, formation of, 1,428,668
—, —, byproduct in decolorizing carbon mfr. 1,308,826
—, —, wood for, 1,186,604
—, formation from acetyldehyde, catalysts for, 1,445,544
—, formation from acetylene, 1,421,743
—, formation from cellulose, 1,443,881
—, formation from corn cobs, 1,457,484
—, formation from engine exhaust gases, 1,388,480
—, formation from ethyl alcohol, 1,438,123; 1,464,153
—, formation from isopropyl alcohol, 1,359,099
—, formation from potassium acetate and carbon dioxide, 1,360,046
—, formation in distillery slop, 1,423,042
—, formic acid, removal of from, permanganate for, 1,210,792
—, —, —, process for, 1,210,792
—, —, —, sulfuric acid for, 1,210,792
—, fungi, prevention with 1,311,709
—, fur, dyeing of using, 1,485,790
—, furniture polish made with, 1,350,537; 1,396,346; 1,438,118
—, fusel oil, substitute for, made with, 1,365,051
Acetic acid, gelatin, action on of, 1,168,137
—, gelatin, treatment of with, 1,206,189
—, gelatin hydrolyzed with, 1,323,951
—, gelatin solvent, 1,299,479; 1,342,267
—, glacial, acetaldehyde made with, 1,400,205; 1,454,609
—, —, acetic anhydride made with, 1,430,304
—, —, acetic arsinic acid solvent, 1,445,685
—, —, acetin made with, 1,378,099
—, —, acetyl *iso*-borneol mfr. with, 1,420,399
—, —, aluminum acetate, therapeutic compound of, solvent, 1,132,709
—, —, amber substitute made with, 1,489,213
—, —, 1-amino-4-anilino-2-methyl-anthraquinone made with, 1,394,851
—, —, 2-amino-3-chlor-anthraquinone made with, 1,452,774
—, —, 3-amino-4-lactyl-*p*-phenetidine made with, 1,159,403
—, —, amyl acetate made with, 1,197,019
—, —, amyl cellulose solvent, 1,504,178
—, —, anthracene solvent, 1,455,448
—, —, anthracene disulfonic acid solvent, 1,455,448
—, —, anthraquinone made with, 1,455,448
—, —, anthraquinone derivatives made with 1,437,783
—, —, 3-*b*-anthraquinonyl-2-phenyl-1.2.4-isonaphthotriazine made with, 1,162,496
—, —, arsenic compound made with, 1,214,924
—, —, battery, dry, made with, 1,366,298
—, —, 3-benzoyl-4.5-diketo-1 (or 2)-phenyl-2 (or 1)-*p*-tolyl-pyrrolidine made with, 1,148,637
—, —, benzyl cellulose non-solvent, 1,483,738
—, —, benzyl cellulose solvent, 1,504,178
—, —, biscuit, container for, made with, 1,488,634
—, —, bottle covering made with, 1,149,532
—, —, butyl cellulose solvent, 1,504,178
—, —, candy, container for, made with, 1,488,634
—, —, caoutchouc substitute made with, 1,216,462
—, —, cellon treated with, 1,514,677
—, —, celluloid, decorating of using, 1,235,037
—, —, —, solvent for, made with, 1,486,647
—, —, celluloid solvent contg., 1,140,174; 1,238,635
—, —, celluloid substitute made with, 1,216,462; 1,217,027; 1,420,028
—, —, cellulose made with, 1,181,857; Re-14,338
—, —, cellulose acetate made with, 1,201,260; 1,216,462; 1,217,722; 1,242,783; 1,258,913; 1,441,541; 1,457,131; 1,458,592
—, —, cellulose acetate (acetone soluble), made with, 1,241,995
—, —, —, hydrated, made with, 1,149,532
—, —, cellulose acetate solvent contg., 1,181,857; Re-14,338; 1,418,347; 1,420,028
—, —, cellulose aceto-nitrate made with, 1,168,164
—, —, cellulose aceto-nitrate solvent, 1,168,164
—, —, cellulose derivative made with, 1,216,462
—, —, cellulose ether solvent, 1,217,027; 1,217,028; 1,504,178; 1,505,043; 1,505,044
—, —, cellulose nitrate, solvent, for, made with, 1,486,647

Acetic acid, glacial, cellulose nitrate solvent contg., 1,135,026; 1,418,347; 1,484,004
—, —, ceresin purified with, 1,178,532
—, —, chloranthracene solvent, 1,455,448
—, —, 1-chlor-4-hydroxy-anthraquinone made with, 1,401,125
—, —, 4-chlor-*m*-tolyl acetate solvent, 1,498,641
—, —, 4-chlor-*m*-tolyl *a*-toluate solvent, 1,498,641
—, —, chocolate, container for, made with, 1,488,634
—, —, cholic acid formaldehyde condensate solvent, 1,213,261
—, —, coloring matter made with, 1,164,036; 1,164,037
—, —, compound, $C_{28}H_{26}O_6N_2S$, made with 1,503,177
—, —, container made with, 1,488,634
—, —, copal substitute made with, 1,489,213
—, —, copying foil made with, 1,499,844
—, —, core compound made with, 1,514,731
—, —, diacetin made with, 1,360,759; 1,378,099
—, —, 1.4-dianilino-anthraquinone made with, 1,394,851
—, —, (?),di-anilino-*N.N'*-dimethyl-quinone solvent, 1,209,163
—, —, dibenzanthrone solvent, 1,464,598
—, —, dichloranthracene solvent, 1,455,448
—, —, dihydro-oxycodeinon made with, 1,485,673
—, —, dihydroxy-diphenyl-dimethyl-methane solvent, 1,156,969
—, —, dihydroxy-diphenyl-dimethyl-methane aldehyde condensate solvent, 1,158,962; 1,158,963; 1,158,964
—, —, dressing made with, 1,489,213
—, —, dyestuff made with, 1,162,496; 1,216,134; 1,429,781; 1,436,770; 1,452,805; 1,457,235; 1,461,435; 1,497,720; 1,503,177; 1,513,074; 1,513,851; 1,518,665
—, —, dyestuff, black, made with, 1,134,486
—, —, —, —, solvent, 1,134,486
—, —, electrolyte contg., 1,371,466
—, —, enamel, black, made with, 1,114,486
—, —, esters mfr. with, 1,459,971
—, —, ethyl cellulose solvent, 1,217,027; 1,217,028; 1,504,178; 1,505,043; 1,505,044
—, —, ethyl starch solvent, 1,350,820
—, —, fabric, printing composition for, made with, 1,164,036; 1,164,037
—, —, filament, artificial, made with, 1,217,028
—, —, film made with, 1,216,462; 1,217,027; 1,484,004
—, —, film, motion picture, made with, 1,158,963
—, —, filter, ultramicroscopic, made with, 1,421,341
—, —, flavoring extract made with, 1,378,099
—, —, food product, container for, made with, 1,488,634
—, —, gelatin substitute made with, 1,217,027
—, —, grease remover made with, 1,496,506
—, —, gum, artificial, solvent, 1,225,748; 1,225,749; 1,225,750
—, —, hair, artificial, made with, 1,217,028
—, —, hat stiffener made with, 1,489,213
—, —, isoborneol made with, 1,478,690
—, —, isoborneol acetate made with, 1,478,690
—, —, leather, artificial, made with, 1,217,123
—, —, manganese(ic) acetate solvent, 1,445,544
Acetic acid, glacial, manufacture of, 1,381,782
—, —, membrane, made with, 1,421,341
—, —, mercury compound soluble in, 1,457,675
—, —, methyl cellulose solvent, 1,504,178; 1,505,044
—, —, methyl 3-nitrosalicylate-5-sulfonyl chloride solvent, 1,125,124
—, —, nitrogen tetroxide dissolved by, 1,337,253
—, —, 3-nitro-2.4-cresotic acid-5-sulfonyl chloride solvent, 1,125,124
—, —, 3-nitro-4-lactyl-*p*-phenetidine made with, 1,159,403
—, —, 3-nitro-salicylic acid-5-sulfonyl chloride solvent, 1,125,124
—, —, nuts, container for, made with, 1,488,634
—, —, oxalic acid made with, 1,157,348
—, —, oxanthranol solvent, 1,455,448
—, —, paint made with, 1,164,036; 1,164,037
—, —, parting compound made with, 1,514,731
—, —, perfume made with, 1,378,099
—, —, perylene solvent, 1,454,204
—, —, phenol aldehyde condensate solvent, 1,225,748; 1,225,749; 1,225,750
—, —, phonograph record made with, 1,158,964
—, —, photo-mechanical transfer copying foil made with, 1,499,844
—, —, propyl cellulose solvent, 1,504,178
—, —, *iso*-propyl cellulose solvent, 1,504,178
—, —, resin, artificial, made with, 1,489,213
—, —, resin solvent, 1,355,103
—, —, rubber, artificial, made with, 1,161,904
—, —, rust remover made with, 1,496,506
—, —, saccharin made with, 1,366,349
—, —, shellac substitute made with, 1,489,213
—, —, silk, artificial, made with, 1,217,028; 1,484,004
—, —, —, treatment of using, 1,500,255
—, —, sludge sulfonic acid, nitrated product from, made with, 1,211,721
—, —, stain, black, made with, 1,134,486
—, —, starch, soluble, made with, 1,207,177
—, —, starch ethers solvent, 1,350,820
—, —, tanning compound made with, 1,414,045
—, —, tanning-substance purified with, 1,414,045
—, —, 7.8.9.10-tetrachlor-2.1-*a*-anthrisoxazole-6.11-dione made with, 1,417,875
—, —, tooth brush made with, 1,238,635
—, —, triacetin made with, 1,360,759
—, —, *o*-trimethylacetoxy-benzoic acid made with, 1,338,297
—, —, varnish made with, 1,216,462
—, —, varnish, black, made with, 1,134,486
—, —, wool, treatment of using, 1,500,255
—, —, *see also Acetic acid, concentrated*
—, glass, cleaner for, contg., 1,494,147
—, glass etching paste made with, 1,470,772
—, glass, unbreakable, made with, 1,342,267
—, glue, animal, treatment of with, 1,206,189
—, glue cleared with, 1,413,984
—, glue, hydrolyzed, made with, 1,206,189; 1,323,951
—, glue precipitating compound made with, 1,222,033
—, gluten treated with, 1,330,058
—, glyceride of, butter substitute made with, 1,190,369

Acetic acid, glyceride of, cream, artificial, made with, 1,190,369
—, *glycerine-esters, see Glycerol acetate*
—, glycerol acetated with, 1,360,759
—, *glycerol esters of, see Acetin; Diacetin; Triacetin*
—, glycerol, freezing point of mixture of and, 1,276,742
—, glycerol synthesized with, 1,466,665
—, glyceryl triacetate mfr. with, 1,456,782
—, glycol made with, 1,215,903; 1,454,604
—, gum, artificial, made with, 1,225,748; 1,225,749; 1,225,750
—, gum solutions neutralized by, 1,365,891
—, hair treated with zinc and, 1,331,609
—, halogenated, cellulose acetate mfr. with, 1,457,131
—, handle made with, 1,482,357; 1,482,358
—, hat, hemp braid, dyeing of using, 1,206,189
—, —, —, sizing of using, 1,206,189
—, hat sizing made with, 1,224,125
—, hat, straw, dyeing of using, 1,181,202; 1,206,189
—, —, —, sizing of using, 1,181,202; 1,206,189
—, hemp, treatment of with, 1,271,591
—, Hessian fly, lure for contg., 1,168,552
—, hexyl acetate made with, 1,365,051
—, Hirsute, treatment of using, 1,197,495
—, hog cholera antitoxin made with, 1,270,270
—, horn substitute made with, 1,360,356
—, horse hair, artificial, made with, 1,497,321
—, hydrochloric acid, removal of from, process for, 1,514,274
—, —, —, sodium acetate for, 1,514,274
—, hydrogen dioxide made with, 1,273,824
—, *o*-hydroxy benzyl alcohol made with, 1,317,276
—, *p*-hydroxy-benzyl alcohol made with, 1,317,276
—, 4-hydroxy-1-naphthyl phenyl ketone made with, 1,516,376
—, 3-hydroxy-4′.4″-tetraethyldiamino-triphenyl-carbinol disulfonic acid made with, 1,478,015
—, hypophysis extract, action of on, 1,296,064
—, ink contg., 1,309,292
—, ink resistant to, 1,420,289
—, insects, lure for contg., 1,168,552
—, insecticide made with, 1,511,623; 1,512,432
—, insulating composition applied with, 1,381,118
—, insulation, electric, made with, 1,159,257; 1,165,164; 1,245,976; 1,245,980; 1,245,981; 1,245,984; 1,360,356; 1,452,086; 1,474,482
—, invertase made using, 1,502,207
—, iron, coating of, using, 1,233,633
—, —, coloring of, using, 1,233,633
—, —, pickling of, using, 1,460,395
—, —, rust-proofing with, 1,320,734
—, —, rust removal from using, 1,470,225
—, —, rusting of, prevented by, 1,215,471
—, iron rusted with composition contg., 1,289,855
—, iron treated with solution contg., 1,289,855
—, iron alloy, pickling of using, 1,460,395
—, iron alloy resistant to the action of, 1,493,191
—, iron-plating, electrolyte ingredient, 1,444,887
Acetic acid, isoborneol acetate made with, 1,420,399
—, isonitrosomethyl 2-phenyl-4-quinolyl ketone made with, 1,434,306
—, ivory, imitation, made with, 1,482,357; 1,482,358
—, ivory nut, treatment of with, 1,260,327
—, ivory substitute made with, 1,245,976; 1,360,356; 1,482,357
—, juglone halogenated in, 1,327,260
—, 4-(g-keto-Δ^a-butenyl)-benzonearsonic acid methylphenylhydrazone made with, 1,425,929
—, ketone-aldehyde condensate made with, 1,482,929
—, knife handle made with, 1,452,086
—, koji made with, 1,263,817
—, lacquer made with, 1,245,818; 1,245,981; 1,245,982; 1,275,324; 1,427,645
—, lactic acid made with, 1,193,951
—, latex coagulated with, 1,423,525; 1,423,526
—, latex treated with, 1,332,925
—, latex, vulcanized, coagulated by, 1,443,149
—, laundering composition made with, 1,514,067
—, lead, coating solution contg., 1,371,445
—, —, orange, copper oxide, removal of from by, 1,128,961
—, —, —, iron oxide removal of from by, 1,128,961
—, —, —, lead monoxide, removal of from by, 1,128,961
—, —, —, zinc oxide, removal of from by, 1,128,961
—, —, plating with, 1,405,167
—, lead produced with, 1,480,110
—, —, red, copper oxide, removal of from using, 1,128,961
—, —, —, iron oxide, removal of from using, 1,128,961
—, —, —, lead monoxide, removal of from using, 1,128,961
—, —, —, zinc oxide, removal of from using, 1,128,961
—, —, white, made with, 1,141,177; 1,144,701; 1,152,693; 1,163,052; 1,196,595; 1,202,262; 1,203,911; 1,214,229
—, lead acetate made with, 1,148,062; 1,387,212; 1,460,898
—, lead arsenate made with, 1,228,516; 1,344,035; 1,387,212; 1,427,049; 1,484,088; 1,512,432
—, lead arsenate ($PbHA_sO_4$), made with, 1,344,035
—, lead arsenate [$Pb_3(A_sO_4)_2$], made with, 1,344,035
—, lead carbonate made with, 1,203,911
—, lead chromate made with, 1,168,417; 1,225,374; 1,484,088
—, lead ore sulfidized in presence of, process for, 1,452,662
—, lead ore treated with calcium sulfide and, 1,452,662
—, lead trinitroresorcinate mfr. with, 1,443,328
—, leather, artificial, made with, 1,140,174; 1,180,902; 1,245,818; 1,245,977; 1,275,324; 1,365,891; 1,427,645
—, leather imitation filler treated with, 1,436,106; 1,436,107

Acetic acid, leather roller treating composition contg., 1,403,944
—, leather treated with sodium silicate and, 1,404,633
—, leather substitute made with, 1,174,734
—, leprosy, substance for treatment of, made with, 1,250,345
—, leucocytic extract made with, 1,171,299
—, light transforming composition made with, 1,188,655; 1,188,775; 1,188,776; 1,188,777
—, lightning arrester electrolyte for contg., 1,270,784
—, limonene made with, 1,289,444
—, linen, fabric contg., dyeing of using, 1,517,709
—, linoleum, drying oil for, made with, 1,254,866
—, linoleum substitute made with, 1,245,978; 1,245,984; 1,427,645
—, linseed oil substitute made with, 1,254,866
—, liquor made with, 1,158,217
—, liquor contg. secondary alcohol esters of, 1,158,217
—, lithographic engraving made using, 1,129,901
—, lymph-gland extract made with, 1,216,046
—, mfr. of, 1,410,207
—, —, acetaldehyde for, 1,174,250; 1,179,420; 1,179,421; 1,193,795; 1,230,899; 1,286,255; 1,286,256; 1,308,173; 1,310,743; 1,315,546; 1,409,098; 1,437,483; 1,472,115; 1,481,326
—, —, acetate for, 1,153,402
—, —, acetone for, 1,488,278
—, —, acetyl chloride for, 1,123,572
—, —, acetylene for, 1,128,780; 1,159,376; 1,174,250; 1,425,500; 1,431,301; 1,471,058; 1,485,706
—, —, acid for, 1,129,542
—, —, air for, 1,174,250; 1,286,255; 1,286,256; 1,308,173; 1,437,483
—, —, alkalies for, 1,338,040
—, —, alkali earth hydroxide for, 1,178,223
—, —, alkali hydroxide for, 1,178,223; 1,201,850
—, —, aluminum apparatus for, 1,481,326
—, —, ammonium caseinate for, 1,214,518
—, —, ammonium hydroxide for, 1,178,223
—, —, ammonium persulfate for, 1,128,780
—, —, ammonium phosphate for, 1,214,518
—, —, *tert*-amyl alcohol for, 1,123,572
—, —, apparatus for, 1,129,542; 1,140,502; 1,143,319; 1,157,316; 1,196,329; 1,225,226; 1,250,282; 1,315,543; 1,315,546; 1,327,737; 1,339,489; 1,400,852; 1,431,301; 1,471,058; 1,481,326; 1,485,706; 1,488,278; 1,495,461; 1,504,385; 1,510,730
—, —, arabinose for, 1,485,844
—, —, arrowroot starch for, 1,214,518
—, —, asbestos for, 1,201,850; 1,471,058
—, —, bacteria, ensilage, for, 1,400,852
—, —, —, garden soil, for, 1,400,852
—, —, —, grape-fruit, for, 1,400,852
—, —, —, herbaceous animal feces, for, 1,400,852
—, —, —, sauer-kraut, for, 1,400,852
—, —, —, swamp, for, 1,400,852
—, —, banana for, 1,214,518
—, —, banana plant for, 1,271,591
—, —, bark for, 1,178,223
—, —, barley for, 1,214,518
—, —, beech wood for, 1,178,223
—, —, Beni-Hinoki wood chips for, 1,521,541
Acetic acid, mfr. of, blau gas for, 1,365,053
—, —, Burton oil for, 1,365,053
—, —, calcium acetate for, 1,153,402; 1,196,329; 1,463,209; 1,463,212
—, —, calcium bisulfite for, 1,129,542
—, —, calcium carbonate for, 1,283,183; 1,327,737; 1,400,852; 1,485,844; 1,504,385
—, —, calcium chloride for, 1,282,805; 1,504,385
—, —, calcium hydroxide for, 1,129,542; 1,178,223; 1,485,844
—, —, calcium hypochlorite for, 1,359,099
—, —, calcium oxide for, 1,327,737; 1,504,385; 1,510,284
—, —, calcium permanganate as catalyst for, 1,179,420
—, —, cane for, 1,271,591
—, —, carbohydrate for, 1,283,183; 1,327,737; 1,338,040
—, —, carbon dioxide for, 1,201,850
—, —, carbon electrode for, 1,365,053
—, —, carbon monoxide for, 1,201,850
—, —, casein, salt of, for, 1,214,518
—, —, cassava starch for, 1,214,518
—, —, cellulose for, 1,129,542; 1,241,789; 1,327,737; 1,471,058; 1,488,278
—, —, cellulose ester for, 1,471,058
—, —, cellulose sulfite liquor for, 1,298,478
—, —, cereal for, 1,214,518
—, —, cerium for, 1,201,850
—, —, cerium compound for, 1,201,850
—, —, cerium compound as catalyst for, 1,179,420
—, —, cerium oxide for, 1,201,850
—, —, cerium oxide as catalyst for, 1,286,256
—, —, cerium salt for, 1,315,543; 1,315,546
—, —, chalk for, 1,283,183
—, —, charcoal for, 1,230,899
—, —, charcoal as catalyst carrier for, 1,437,483
—, —, chloracetic acid for, 1,174,250
—, —, chromium for, 1,201,850
—, —, chromium as catalyst for, 1,437,483
—, —, chromium compound for, 1,201,850
—, —, chromium compound as catalyst for, 1,179,420
—, —, chromium oxide for, 1,201,850
—, —, chromium oxide as catalyst for, 1,286,256
—, —, clay for, 1,159,376; 1,504,385
—, —, cobalt for, 1,201,850
—, —, cobalt compound for, 1,201,850
—, —, cobalt oxide for, 1,201,850
—, —, copper, iron coated with, for, 1,201,850
—, —, copper as catalyst for, 1,437,483
—, —, copper cathode for,1,159,376
—, —, copper oxide as catalyst for, 1,286,256
—, —, corn for, 1,214,518
—, —, corn cobs for, 1,457,484; 1,485,844; 1,516,701
—, —, corn grits for, 1,214,518
—, —, corn stover for, 1,485,844
—, —, cotton seed hulls for, 1,485,844
—, —, diatomaceous earth for, 1,201,850
—, —, distillery slop for, 1,283,183
—, —, distillery waste for, 1,396,368; 1,400,852
—, —, electrode for, 1,471,058
—, —, electrolytic process for, 1,365,053
—, —, esparto for, 1,271,591

Acetic acid, mfr. of, ethyl alcohol for, 1,193,795; 1,225,226; 1,272,276; 1,437,483
—, —, ethylene for, 1,315,543; 1,315,546
—, —, ethylidene diacetate for, 1,306,963; 1,429,650
—, —, ferment, butyric, for 1,283,183
—, —, —, lactic, for, 1,283,183
—, —, —, *Bacillus nutyrious*, for, 1,283,183
—, —, ferrosilicon for, 1,471,058
—, —, flax for, 1,271,591
—, —, garbage for, 1,140,502; 1,307,991; 1,307,992
—, —, gasolene for, 1,365,053
—, —, glass for, 1,230,899
—, —, glucose for, 1,485,844
—, —, glucose and mannitic leaven for, 1,175,747
—, —, glycerol for, 1,146,854
—, —, gold for, 1,471,058
—, —, granite for, 1,488,278
—, —, graphite for, 1,471,058
—, —, hay for, 1,178,223
—, —, hemp for, 1,271,591
—, —, hempaku wood chips for, 1,521,541
—, —, hydrocarbon, olefin, for, 1,365,053
—, —, hydrochloric acid for, 1,214,518; 1,283,183; 1,463,209; 1,463,212
—, —, hydrochloric acid and wood for, 1,259,277
—, —, hydrogen for, 1,201,850
—, —, hydrogen dioxide for, 1,128,780
—, —, iron for, 1,471,058
—, —, iron, copper coated, for, 1,201,850
—, —, iron alloy, aluminum in, for, 1,471,058
—, —, —, nickel in, for, 1,471,058
—, —, iron as catalyst for, 1,437,483
—, —, iron compound as catalyst for, 1,179,420
—, —, iron oxides for, 1,174,250
—, —, iron oxide (Fe_3O_4) for, 1,174,250
—, —, iron(ic) acetate for, 1,308,173
—, —, iron(ic) acetate, basic, for, 1,308,173
—, —, iron(ic) oxide for, 1,308,173
—, —, lactic acid for, 1,214,518
—, —, *Lactobacillus pentoaceticus* for, 1,485,844
—, —, lactose for, 1,485,844
—, —, lead cathode for, 1,159,376; 1,431,301
—, —, lead electrode for, 1,365,053
—, —, lead peroxide anode for, 1,315,543; 1,315,546
—, —, leaves for, 1,178,223
—, —, levulose and mannitic leaven for, 1,175,747
—, —, lime for, 1,339,489; 1,400,852; 1,510,284
—, —, limestone for, 1,485,844; 1,504,385
—, —, magnesia for, 1,201,850
—, —, magnetite anode for, 1,315,543; 1,315,546
—, —, manganese for, 1,201,850
—, —, manganese acetate as catalyst for, 1,179,420
—, —, manganese benzoate as catalyst for, 1,179,420
—, —, manganese butyrate as catalyst for, 1,179,420
—, —, manganese compound for, 1,201,850
—, —, manganese compound as catalyst for, 1,179,420
—, —, manganese formate as catalyst for, 1,179,420
Acetic acid, mfr. of, manganese lactate as catalyst for, 1,179,420
—, —, manganese oxide for, 1,201,850
—, —, mannitic leaven and glucose for, 1,175,747
—, —, mannitic leaven and levulose for, 1,175,747
—, —, mercury for, 1,128,780; 1,159,376; 1,431,301
—, —, mercury cathode for, 1,431,301
—, —, mercury compound for, 1,128,780; 1,471,058
—, —, mercury oxide for, 1,431,301
—, —, mercury salt for, 1,174,250; 1,431,301
—, —, mercury sulfate for, 1,431,301
—, —, mercury(ic) oxide for, 1,128,780; 1,159,376; 1,174,250; 1,471,058
—, —, mercury(ic) phosphate for, 1,174,250
—, —, mercury(ic) sulfate for, 1,174,250; 1,315,543; 1,315,546
—, —, mercury(ous) oxide for, 1,174,250
—, —, mercury(ous) phosphate for, 1,174,250
—, —, mercury(ous) sulfate for, 1,174,250
—, —, molasses for, 1,283,183
—, —, molybdenum for, 1,201,850
—, —, molybdenum compound for, 1,201,850
—, —, molybdenum oxide for, 1,201,850
—, —, nickel as catalyst for, 1,437,483
—, —, nitrogen tetroxide for, 1,337,253
—, —, oats for, 1,214,518
—, —, oak, white, for, 1,488,278
—, —, olefines for, 1,365,053
—, —, osmium for, 1,201,850
—, —, osmium compound for, 1,201,850
—, —, osmium oxide for, 1,201,850
—, —, oxide for, 1,471,058
—, —, oxygen for, 1,174,250; 1,179,420; 1,225,226; 1,230,899; 1,286,255; 1,286,256; 1,308,173; 1,365,053
—, —, palladium for, 1,201,850
—, —, palladium compound for, 1,201,850
—, —, palladium oxide for, 1,201,850
—, —, paper for, 1,471,058
—, —, paraffin for, 1,463,209
—, —, paraffin oil used in, 1,381,782
—, —, peat for, 1,143,319; 1,495,461; 1,504,385; 1,510,284
—, —, pentoses for, 1,485,844
—, —, peracetic acid for, 1,179,421
—, —, peroxide for, 1,471,058
—, —, permonosulfuric acid for, 1,128,780
—, —, persulfates for, 1,128,780
—, —, persulfuric acid for, 1,128,780
—, —, petroleum for, 1,365,053
—, —, phosphate minerals for, 1,282,805
—, —, phosphoric acid for, 1,159,376; 1,174,250; 1,271,071; 1,283,183; 1,431,301; 1,471,058
—, —, phosphoric acid and wood for, 1,259,277
—, —, pine wood for, 1,178,223
—, —, Pintsch gas for, 1,365,053
—, —, platinum for, 1,471,058
—, —, platinum anode for, 1,159,376; 1,315,543; 1,315,546; 1,431,301
—, —, platinum as catalyst for, 1,286,255; 1,286,256
—, —, platinum cathode for, 1,431,301
—, —, platinum electrode for, 1,365,053
—, —, porcelain as catalyst carrier for, 1,437,483

Acetic acid, mfr. of, potassium acetate for, 1,521,541
—, —, potassium carbonate for, 1,201,850
—, —, potassium caseinate for, 1,214,518
—, —, potassium hydroxide for, 1,178,223
—, —, potassium minerals for, 1,282,805
—, —, potassium permanganate for, 1,488,278
—, —, potassium permanganate as catalyst for, 1,179,420
—, —, potassium persulfate for, 1,128,780
—, —, potato starch for, 1,214,518
—, —, pottery for, 1,230,899
—, —, process for, 1,123,572; 1,128,780; 1,129,542; 1,140,502; 1,143,319; 1,157,316; 1,159,376; 1,174,250; 1,178,223; 1,179,420; 1,193,795; 1,196,329; 1,201,850; 1,214,518; 1,225,226; 1,230,899; 1,241,789; 1,250,282; 1,271,591; 1,282,805; 1,283,183; 1,286,255; 1,286,256; 1,308,173; 1,315,543; 1,315,546; 1,327,737; 1,339,489; 1,359,099; 1,365,053; 1,400,852; 1,431,301; 1,437,483; 1,457,484; 1,463,209; 1,463,212; 1,471,058; 1,481,326; 1,485,706; 1,485,844; 1,488,278; 1,495,461; 1,504,385; 1,510,284; 1,510,730; 1,516,701; 1,521,541
—, —, *iso*-propyl alcohol for, 1,359,099
—, —, pumice for, 1,201,850
—, —, pumice as catalyst carrier for, 1,437,483
—, —, pyroligneous liquors for, 1,371,461
—, —, rice for, 1,214,518
—, —, root for, 1,214,518
—, —, rye for, 1,214,518
—, —, sago starch for, 1,214,518
—, —, sawdust for, 1,140,502; 1,178,223; 1,282,805; 1,327,737
—, —, seaweed for, 1,305,058
—, —, sodium acetate for, 1,153,402; 1,188,740; 1,337,253
—, —, sodium carbonate for, 1,178,223; 1,400,852
—, —, sodium caseinate for, 1,214,518
—, —, sodium hydroxide for, 1,178,223; 1,201,850
—, —, starch for, 1,214,518
—, —, steel for, 1,471,058
—, —, straw for, 1,178,223; 1,485,844
—, —, sulfuric acid for, 1,128,780; 1,129,542; 1,159,376; 1,174,250; 1,188,740; 1,196,329; 1,283,183; 1,315,543; 1,315,546; 1,339,489; 1,365,053; 1,431,301; 1,463,209; 1,463,212; 1,485,844
—, —, sulfuric acid and wood for, 1,259,277
—, —, sulfurous acid for, 1,129,542
—, —, tallow for, 1,463,209
—, —, tar for, 1,327,737
—, —, terra cotta as catalyst carrier for, 1,437,483
—, —, thread for, 1,471,058
—, —, titanium for, 1,201,850
—, —, titanium compound for, 1,201,850
—, —, titanium oxide for, 1,201,850
—, —, trichloracetic acid for, 1,179,420
—, —, tuber for, 1,214,518
—, —, uranium compound as catalyst for, 1,179,420
—, —, uranium oxide as catalyst for, 1,286,256
—, —, uranium(ic) oxide for, 1,174,250
Acetic acid, mfr. of, vacuum distillation of, 1,463,209
—, —, vanadium compound as catalyst for, 1,179,420
—, —, vanadium oxide as catalyst for, 1,286,256
—, —, vanadium pentoxide for, 1,174,250
—, —, water for, 1,129,542; 1,174,250; 1,271,071
—, —, wax for, 1,463,209
—, —, wheat for, 1,214,518
—, —, whey for, 1,283,183
—, —, whiskey, sour mash, for, 1,283,183
—, —, wood for, 1,129,542; 1,157,316; 1,178,223; 1,241,789; 1,250,282; 1,271,591; 1,282,805; 1,259,277; 1,327,737; 1,339,489; 1,363,730; 1,374,887; 1,488,278; 1,510,730
—, —, wood, hard, for, 1,241,789
—, —, wood distillation for, 1,397,181
—, —, wood grinding waste water for, 1,339,489
—, —, wood pulp for, 1,178,223
—, —, wood tar for, 1,271,071
—, —, wood and hydrochloric acid for, 1,259,277
—, —, wood and phosphoric acid for, 1,259,277
—, —, wood and sulfuric acid for, 1,259,277
—, —, wool for, 1,471,058
—, —, xyloid lignite for, 1,504,385
—, —, xylose for, 1,485,844
—, —, yeast maker's slop for, 1,283,183
—, —, "yeast water" for, 1,214,518; 1,485,844
—, —, zeolite, artificial, as catalyst for, 1,193,795
—, —, zinc for, 1,201,850
—, —, zinc carbonate for, 1,283,183
—, —, zinc compound for, 1,201,850
—, —, zinc oxide for, 1,201,850
—, manganese dioxide made with, 1,330,738
—, maple syrup prepared with, 1,467,022
—, meat preservative prepared with, 1,402,354
—, mending composition made with, 1,389,084
—, mercury acetate from, 1,304,989
—, metal, etching of with, 1,276,599
—, metal cleaned with, 1,334,092
—, methyl acetate from, mfr. of, 1,400,849; 1,400,850; 1,400,851; 1,426,457
—, α-(α′-methylamino-ethyl)-benzyl alcohol made with, 1,356,877
—, 2-methyl-3-butin-2-ol made with, 1,169,341
—, methyl cellulose made with, 1,188,376
—, molasses, feed contg., mold prevented in, with, 1,311,709
—, mold, prevention of with, 1,311,709
—, mold prevented from growing with, 1,318,174
—, molded article made with, 1,360,356; 1,427,645; 1,452,086; 1,482,357; 1,482,358; 1,511,003
—, monochloracetic acid from, 1,304,108
—, mordant, chromium compound as, made with, 1,162,210
—, moth millers, lure for, contg., 1,168,552
—, mouth wash contg., 1,275,275
—, naphthalene-2.6-dithioglycolic acid crystallized from, 1,444,277
—, 2.1-naphthoxythiophene solvent, 1,434,983
—, neutralizing vegetable glue with, 1,378,078
—, nickel acetate from, 1,390,686
—, nickel plating electrolyte contg., 1,373,837
—, nickel plating solution contg., 1,379,050
—, nitration process using, 1,283,617

Acetic acid, *p*-nitroacetanilide reduced by iron and, 1,358,324
—, *p*-nitro acetyl amino cymene dissolved by, 1,306,512
—, 2-nitro-aniline made with, 1,423,494
—, 10-nitro-anthrone made with, 1,150,152
—, nitro-compound made with, 1,283,617
—, nitrocymene made with, 1,314,920
—, nitrodextrin made using, 1,504,986
—, nitrodextrin stabilized using, 1,504,986
—, nitrogen fixation process using, 1,206,155
—, nitrogen pentoxide made with, 1,153,402
—, nitro-glycerol made with, 1,283,617
—, nitrostarch made using, 1,504,986
—, nitrostarch stabilized using, 1,504,986
—, oil, vegetable, made with, 1,244,995
—, —, —, drying, substitute made with, 1,254,866
—, oil cloth, imitation, made with, 1,140,174
—, olefines esterified with, 1,365,052
—, oleoresin, paste made with, 1,324,538
—, opium extract made with, 1,243,729
—, ornament made with, 1,482,357; 1,482,358
—, oxanthranol solvent, 1 455,448
—,oxycholesterol made with, 1,284,724
—, oxy-derivatives of, vinyl esters prepared from, 1,425,130
—, oxy-mercury nitrophenolates mfr. with 1,390,972
—, paint, undercoating composition for, made with, 1,425,510
—, paint remover made with, 1,147,848, 1,147,849; 1,147,850; 1,165,148; 1,184,164; 1,201,181
—, palm oil made with, 1,244,995
—, palm nut, tannic acid, removal of from, using, 1,244,995
—, paper made with, 1,229,422; 1,500,500; 1,502,686
—, paper, cement for, made with, 1,482,357
—, —, dyeing of using, 1,485,790
—, —, grease-proof, made with, 1,476,562
—, —, parchmentized, made with, 1,333,465
—, —, photographic, printing and transfer, made with, 1,299,479
—, —, —, transfer, made with, 1,299,479
—, —, safety, made with, 1,177,787
—, —, —, adhesive, made with, 1,177,787
—, —, water-proof, made with, 1,476,562
—, paper parchmentized by thiocyanates and, 1,333,465
—, parazene dissolved by, 1,340,696
—, Paris green made with, 1,512,432
—, peanut, tannic acid, removal of from, using, 1,244,995
—, peanut oil made with, 1,244,995
—, pectin extracted with, 1,385,525
—, perylene made with, 1,384,615; 1,454,204
—, pharmaceutical product made with, 1,218,209
—, phenol aldehyde condensate solvent, Re-14,530; 14,531; (1,087,422); 1,225,748; 1,225,749; 1,225,750; 1,414,139; 1,505,382
—, phenol aldehyde condensate substitute made with, 1,245,976; 1,360,356
—, phenylnitropropanol reduced by zinc and, 1,356,877
—, phosphorus, vanadium solutions, removal from of, using, 1,421,191
Acetic acid, phosphorus oxychloride made from, 1,359,071
—, photograph, colored, made with, 1,170,540; 1,256,675
—, —, copper silver compound print, toning of with, 1,473,568
—, —, mercury silver compound print, toning of with, 1,473,568
—, —, motion, colored, made with, 1,256,675
—, —, silver bromide print, toning of with, 1,473,568
—, —, silver chloride print, toning of with, 1,473,568
—, —, silver iodide print, toning of with, 1,473,568
—, —, silver ferrocyanide print, toning of with, 1,473,568
—, photographic emulsions dyed with, 1,417,328
—, photographic film dyed with fuchsin using, 1,300,616
—, photographic film treated with, 1,441,615
—, photographic fixing bath contg., 1,411,687
—, photographic image bleached with, 1,411,968
—, photographic image, dyeing of, using, 1,214,940
—, photographic negatives stripped with, 1,428,009
—, photographic print made with, 1,494,203
—, photographic print, colored, made with, 1,160,288; 1,166,121; 1,166,122; 1,166,123; 1,247,116
—, motion, colored, made with, 1,166,121; 1,166,122; 1,166,123
—, photographic print paper, transfer, made using, 1,228,680
—, photographic reproduction, colored, made with, 1,193,879
—, photography, colored, process for using, 1,196,080
—, —, color, process for using, 1,516,824
—, picric acid made with, 1,283,617
—, pigment made with, 1,484,088
—, pinene hydrochloride treated in presence of, 1,372,382
—, pipe bowl made with, 1,482,357
—, pipe mending composition made with, 1,389,084
—, pipe stem made with, 1,482,357; 1,482,358
—, plastic made with, 1,180,902; 1,245,981; 1,245,984; 1,360,356; 1,389,084; 1,452,086; 1,474,482; 1,482,929
—, plastic composition made with, 1,295,533
—, plastic dissolved in acetone and, 1,295,533
—, plastic soluble in, 1,402,969
—, plate, printing, made with, 1,252,800; 1,276,599
—, polish made with, 1,222,441; 1,314,482; 1,356,075; 1,400,826; 1,415,570; 1,474,133
—, polishing composition contg 1,356,075
—, pontianak resin, separation from of, 1,179,413
—, potassium phosphate (KH_2PO_4) made with, 1,150,899; 1,150,900
—, potassium salts liberated from leucite by, 1,418,356
—, preparation from acetylene, 1,431,301
—, printing plate made using, 1,496,268
—, propanediol made with, 1,215,903

Acetic acid, propionic anhydride made with, 1,153,402
—, proteid made with, 1,275,324
—, proteid animal, hydrolyzed with, 1,323,951
—, proteids precipitated by, 1,427,645
—, proteid product made with, 1,245,818; 1,245,976; 1,245,981
—, pungent compound made with, 1,329,272
—, purification of, calcium chloride for, 1,457,484
—, —, process for, 1,457,484
—, —, skins for, 1,457,484
—, —, sodium chloride for, 1,457,484
—, quebracho tanning compound made with, 1,241,950
—, radium compound made with, 1,154,230
—, rat poison contg., 1,372,092; Re-15,130
—, record, phonograph, made with, 1,413,984; 1,482,358
—, recovery of, apparatus for, 1,314,765
—, —, calcium hydroxide for, 1,314,765
—, —, during cellulose acetate mfr., 1,494,816; 1,494,830
—, —, from distillery waste, 1,426,457
—, —, from tanning extract, 1,314,765
—, resin, artificial, not attacked by, 1,489,744
—, rosin made with, 1,511,461
—, rosin, amino derivative prepared with, 1,414,164
—, rosin nitrated, solvent, 1,414,164
—, rosin nitrated in, 1,414,164
—, rubber, artificial, made with, 1,275,324; 1,289,444
—, —, hard, coated with gold, using, 1,472,244
—, —, —, coated with metal, using, 1,472,244
—, —, —, coated with platinum, using, 1,472,244
—, —, —, coated with silver, using, 1,472,244
—, —, —, coated with tin, using, 1,472,244
—, —, —, solvent, 1,472,244
—, —, imitation, made with, 1,245,818
—, —, spongy, made with, 1,156,184
—, —, synthetic, made with, 1,436,819
—, —, vulcanization of, use of, 1,323,951
—, —, vulcanized, collodial, made with, 1,443,149; 1,502,686
—, rubber composition contg., 1,300,263
—, rubber latex coagulated with, 1,380,640
—, rubber latex, *Hevea Brasiliensis,* coagulation of using, 1,145,351; 1,145,352; 1,146,851
—, —, Para, coagulation of using, 1,145,351; 1,145,352; 1,146,851
—, rubber latex treated with, 1,332,925
—, rubber mending composition made with, 1,389,084
—, rubber regenerated with phenylenediamine and, 1,340,777
—, rubber substitute made with, 1,159,257; 1,174,734; 1,180,902; 1,245,976; 1,245,979; 1,245,984; 1,427,645; 1,471,059
—, rust made with, 1,215,471
—, rust-resistant coatings produced with, 1,440,092
—, saccharin mfr. with, 1,366,349
—, sand paper made with, 1,468,960
—, sausage casing made with, 1,204,812
—, secretin made with, 1,181,424
—, shark skins de-armored with, 1,395,773
Acetic acid, shark skin dermal armor removed with, 1,412,968
—, shellac substitute made with, 1,482,929
—, shoe sole made with, 1,174,734
—, silk, artificial, made with, 1,497,321
—, —, —, cellulose acetate, made with, 1,363,763
—, —, —, —, dyeing of using, 1,517,581; 1,517,709
—, —, —, —, fabric contg., dyeing of using, 1,517,709
—, —, —, viscose, precipitation of using, 1,226,178
—, —, —, waterproofing of using, 1,377,110
—, silk dyed with, 1,446,860
—, silk, dyeing of using, 1,199,273; 1,209,423; 1,485,790; 1,492,094; 1,495,614
—, —, raw, dyeing of using, 1,486,292
—, —, waste, spinning of using, 1,232,374
—, silk treated with, 1,446,860; 1,457,607
—, silver alcohols prepared with, 1,413,151
—, sizing made with, 1,224,125
—, soap, laundry, made with, 1,241,043
—, sodium phosphate (NaH_2PO_4), made with, 1,150,899; 1,150,900
—, sodium silicate decomposed by, 1,404,633
—, solubility of phenylquinolylmethylketone hydrobromide in, 1,434,306
—, solvent made with, 1,283,183
—, solvent for, amylene dichloride as, 1,321,307
—, —, butylene dichloride as, 1,321,307
—, —, chloroform as, 1,321,307
—, —, ethylene dichloride as, 1,321,307
—, —, olefin dichloride as, 1,321,307
—, —, propylene dichloride as, 1,321,307
—, souring composition made with, 1,514,067
—, soya beans deodorized with, 1,433,168
—, spleen extract prepared with, 1,437,951
—, sponge, artificial, made with, 1,142,619
—, starch, soluble, made with, 1,207,177
—, starch hydrolyzed with, 1,392,988
—, stearo-ricinate iodized in presence of, 1,381,057
—, steel, coating of, using, 1,233,633
—, —, coloring of, using, 1,233,633
—, —, etching of with, 1,276,599; 1,376,365; 1,376,366; 1,376,368; 1,376,369
—, —, pickling of using, 1,460,395
—, —, rust-proofing with, 1,320,734
—, —, rust removal from using, 1,470,225
—, steel tempering composition contg., 1,296,951
—, stencil made with, 1,376,365; 1,376,366; 1,376,368; 1,376,369
—, straw, artificial, made with, 1,497,321
—, —, dyeing of using, 1,485,790
—, *substitute for in laundry work, see Bleaching, composition for*
—, suint ingredient, 1,405,371
—, sulfite cellulose waste liquor ingredient, 1,430,477
—, sulfite waste liquor treated with, 1,394,151
—, sulfur dioxide, absorption of, using, 1,212,199
—, sulfur dioxide determined using, 1,205,723; 1,205,724
—, sulfur trioxide, absorption of, using, 1,212,199
—, sulfuric acid, action of on, 1,210,792

Acetic acid, sulfuryl chloride mfr. in presence of, 1,364,738
—, sunflower seed, tannic acid, removal of from, using, 1,244,995
—, sunflower seed oil made with, 1,244,995
—, syrup mfr. with, 1,465,459
—, tagal, dyeing of using, 1,485,790
—, tannic acid, cacao bean, removal from of, using, 1,244,995
—, —, castor oil bean, removal of from, using, 1,244,995
—, —, cocoanut, removal from of, using, 1,244,995
—, —, cotton seed, removal from of, using, 1,244,995
—, —, palm nut, removal from of, using, 1,244,995
—, —, peanut, removal from of, using, 1,244,995
—, —, sunflower seed, removal from of, using, 1,244,995
—, tanning using, 1,230,667
—, tanning compound made with, 1,186,500; 1,222,033; 1,241,950; 1,327,105; 1,375,975; 1,394,151; 1,497,672
—, tanning material made with, 1,229,422
—, tanning process using, 1,516,641
—, teeth, artificial, mending composition for, made with, 1,389,084
—, tempering steel in solution contg., 1,362,924
—, terebene made with, 1,478,690
—, 4.4′-tetramethyldiamino-triphenyl-carbinol made with, 1,483,233
—, therapeutic compound made with, 1,218,655; 1,250,345; 1,308,071
—, 2-(2′-thienyl)-cinchoninic acid made with, 1,350,408
—, thienylquinoline carboxylic acid separated with, 1,350,408
—, thioureas made with, 1,218,655
—, thistledown, spinning of using, 1,232,374
—, thread made with, 1,180,902
—, thyroid product mfr. with, 1,392,768
—, thyroxin, action of on, 1,392,768
—, tile made with, 1,245,984
—, tin-plating electrolyte contg., 1,466,126
—, tire made with, 1,200,296
—, toilet articles made with, 1,482,358
—, *o*-toluene sulfonamide oxidized in solution in, 1,366,349
—, *p*-*p*′-tolyldibromindigo, reaction with, 1,412,038
—, tonka bean extract made with, 1,515,714
—, tooth paste made with, 1,275,275
—, tooth powder contg., 1,275,275
—, tribromojuglone solvent, 1,327,260
—, 2.3.8-tribrom-juglone made with, 1,327,260
—, trinitrotoluene made with, 1,283,617
—, tuberculosis, substance for treatment of, made with, 1,250,345
—, tungstates purified with, 1,335,277
—, tungsten lakes mfr. with, 1,378,882
—, undercoating composition contg., 1,425,510
—, ureas made with, 1,218,655; 1,308,071
—, urea-formaldehyde made with, 1,482,357
—, vaccine made using, 1,514,681
—, vanadium solutions, removal of from using, 1,421,191
Acetic acid, vanilla bean extract made with, 1,515,714
—, vanillyl-acetyl-amide from, 1,329,272
—, vanillyl derivatives mfr. with, 1,329,272
—, varnish made with, 1,159,257; 1,245,818; 1,275,324; 1,280,861; 1,427,645; 1,482,357; 1,482,929
—, varnish, light transforming, made with, 1,188,655; 1,188,775; 1,188,776; 1,188,777
—, —, undercoating composition for, made with, 1,425,510
—, varnish remover made with, 1,147,848; 1,147,849; 1,147,850; 1,165,148; 1,184,164; 1,201,181
—, vegetables blanched by, process for, 1,448,512
—, vegetables fibers impregnated with starch and, 1,400,380
—, vinegar contg., 1,272,276; 1,459,513
—, vinyl acetate made with, 1,425,130
—, viscose precipitated with, 1,142,619
—, vitamin made with, 1,235,198
— vitamin, food product free from, made with, 1,505,551
—, vitamin compound made with, 1,488,815
—, vitamin solution made with, 1,474,029
—, Vogel solution contg., 1,299,479
—, vulcanized fiber made with, 1,333,465
—, wall paper, coating composition for, made with, 1,425,510
—, washing crystals made with, 1,241,044
—, waste, acetone substitute made with, 1,260,977
—, —, alkyl acetate made with, 1,260,977
—, —, cellulose acetate, solvent for, made with, 1,260,977
—, —, cellulose formate, solvent for, made with, 1,260,977
—, —, cellulose nitrate, solvent for, made with, 1,260,977
—, —, cellulose sulfoacetate, solvent for, made with, 1,260,977
—, —, fat, solvent for, made with, 1,260,977
—, —, methyl acetate made with, 1,260,977
—, —, sodium acetate made with, 1,260,977
—, water-proofing made with, 1,180,902; 1,377,110; 1,389,084
—, white lead made with, 1,297,934; 1,447,740
—, wood for mfr., 1,374,887
—, wood, dyeing of using, 1,485,790
—, —, drying of, using, 1,497,362
—, —, treatment of with, 1,271,591
—, wood work mending composition made with, 1,389,084
—, —, fabric contg., dyeing of using, 1,517,709
—, wool, cleaning refuse contg., 1,405,371
—, wool, dyeing of, using, 1,199,273; 1,209,423; 1,511,359
—, wool treated with soap and, 1,389,274
—, wool, treatment of using, 1,197,495
—, yeast treated with, 1,415,469; 1,464,710
—, zinc, etching of with, 1,276,599
—, zinc ore sulfidized in presence of, process for, 1,452,662
—, zinc ore treated with calcium sulfide and, 1,452,662

Acetic acid, zinc sulfide made with, 1,463,483
—, *see also Pyroligneous acid; Vinegar*
Acetic acid amide, see Acetamide
Acetic acid anhydride, see Acetic anhydride
Acetic acid bacteria, beverages prepared with, 1,461,808
Acetic acid series, acids of, varnish base mfr. from, 1,422,861
—, ketones made from, 1,283,183
—, mfr. of, calcium carbonate for, 1,283,183
—, —, carbohydrates for, 1,283,183
—, —, chalk for, 1,283,183
—, —, distillery slop for, 1,283,183
—, —, ferment, butyric, for, 1,283,183
—, —, —, *Bacillus butyricus* for, 1,283,183
—, —, —, lactic, for, 1,283,183
—, —, hydrochloric acid for, 1,283,183
—, —, molasses for, 1,283,183
—, —, phosphoric acid for, 1,283,183
—, —, process for, 1,283,183
—, —, sulfuric acid for, 1,283,183
—, —, whey for, 1,283,183
—, —, whiskey, sour mash, for, 1,283,183
—, —, yeast makers slop for, 1,283,183
—, —, zinc carbonate for, 1,283,183
Acetic aldehyde, see Acetaldehyde
Acetic anhydride, acetaldehyde, separation from of, 1,298,356
—, (acetylamino)-anthraquinone made with, 1,266,896
—, 2-acetylamino-1-naphthyl-thioglycolic acid made with, 1,498,913
—, acetylarsenophenylglycine made with, 1,299,215
—, acetylating arylsulfones with, 1,359,969
—, acetyl sulfide removed from, 1,467,074
—, alkyl esters made with, 1,478,498
—, *p*-allyloxy-acetanilide made with, 1,263,238
—, anthraquinone mfr. with, 1,466,683
—, arsenic compound made with, 1,521,560
—, *arsenious anhydride, compound of and, see Acetic-arsenious anhydride*
—, benzyl acetylsalicylate prepared from, 1,436,304
—, butyl acetylsalicylate made with, 1,408,095
—, camphene made with, 1,478,690
—, caoutchouc substitute made with, 1,216,462
—, celluloid substitute made with, 1,216,462
—, cellulose acetate made with, 1,181,857; Re-14,338; 1,191,439; 1,201,260; 1,216,462; 1,217,722; 1,242,783; 1,258,913; 1,263,119; 1,265,216; 1,278,885; 1,280,974; 1,280,975; 1,296,847; 1,330,543; 1,338,661; 1,347,801; 1,389,250; 1,396,878; 1,441,541; 1,445,382; 1,456,781; 1,457,131; 1,458,592; 1,466,329; 1,466,401; 1,478,137; 1,494,816; 1,494,830; 1,503,835; 1,514,274; 1,516,225
—, cellulose acetate (acetone soluble), made with, 1,241,995
—, —, recovery from mfr. of, 1,516,225
—, cellulose acetated with, 1,379,699
—, cellulose acetylated by, 1,338,661
—, cellulose aceto-nitrate made with, 1,168,164
—, cellulose derivative made with, 1,216,462
—, cellulose nitro-acetate made with, 1,286,025
—, 4-chlor-*m*-tolyl acetate made with, 1,498,641
—, cholic acid, compound of and, 1,218,209
Acetic anhydride, compound (CHAs)x, made with, 1,521,560
—, compound, CH_3O_2As, made with, 1,521,560
—, compound, $C_{23}H_{16}O_2N_2$, made with, 1,144,577
—, concentration of, process for, 1,311,158
—, —, sodium acetate for, 1,311,158
—, coumarine mfr. with, 1,437,344
—, 2.3-diacetyl-*o*-pyrocatechuic acid made with, 1,140,716
—, dihydroisoquinoline derivatives prepared with, 1,437,802
—, dihydroxydiethylsulfide acetic ester mfr. from, 1,422,869
—, dinitro-phenyl acetate made with, 1,198,040
—, dyestuff made with, 1,123,430; 1,144,577; 1,147,778; 1,157,485; 1,216,134; 1,359,969; 1,408,405; 1,498,913
—, esters made with, 1,478,498
—, ethyl acetoacetate made with, 1,472,324
—, ethyl acetylsalicylate made with, 1,408,095
—, ethylidene diacetate from, 1,425,130
—, ethyl 3.4.5-triacetoxy-benzoate made with, 1,222,345
—, film made with, 1,216,462
—, finish remover made with, 1,167,469
—, glyceryl triacetate mfr. with, 1,456,782
—, isoborneol made with, 1,478,690
—, isoborneol acetate made with, 1,478,690
—, leprosy, substance for treatment of, made with, 1,250,345
—, mfr. of, 1,368,789; 1,425,500; 1,430,304; 1,467,074
—, —, acetate for, 1,153,402; 1,195,205; 1,195,227; 1,425,500; 1,430,304
—, —, acetic acid for, 1,136,630; 1,153,402; 1,283,115; 1,425,500
—, —, acetic acid, glacial, for, 1,430,304
—, —, acetic anhydride for, 1,136,630
—, —, acetyl for, 1,326,040
—, —, aldehyde for, 1,326,040
—, —, alkali acetate for, 1,326,040
—, —, alkali earth acetate for, 1,326,040
—, —, apparatus for, 1,195,205; 1,195,227; 1,425,500
—, —, barium nitrate for, 1,153,402
—, —, bromine for, 1,195,227
—, —, calcium acetate for, 1,153,402; 1,195,205; 1,195,227; 1,283,115; 1,338,979
—, —, calcium chloride as catalyst for, 1,298,356
—, —, chlorine for, 1,195,205; 1,195,227; 1,326,040
—, —, chlorsulfonic acid for, 1,283,115
—, —, copper for, 1,152,098; 1,153,402
—, —, copper sulfide for, 1,195,227
—, —, ester for, 1,326,040
—, —, ether for, 1,326,040
—, —, ethyl acetate for, 1,326,040
—, —, ethylidine diacetate for, 1,152,098; 1,298,356; 1,306,963; 1,425,500; 1,429,650
—, —, hydrocarbon for, 1,326,040
—, —, iron sulfide for, 1,195,205; 1,195,227
—, —, lead for, 1,153,402
—, —, lead nitrate for, 1,153,402
—, —, mercury oxide for, 1,425,500
—, —, mercury salt for, 1,425,500
—, —, mercury(ic) sulfate for, 1,152,098; 1,425,500
—, —, metaboric acid as catalyst for, 1,298,356

Acetic anhydride, mfr. of, metaboric acid in petroleum as catalyst for, 1,298,356
—, —, metal sulfide for, 1,195,205
—, —, monosodium orthophosphate as catalyst for, 1,298,356
—, —, nitric acid for, 1,153,402
—, —, nitric acid, fuming, for, 1,153,402
—, —, nitrogen for, 1,338,979
—, —, nitrogen pentoxide for, 1,153,402
—, —, nitrogen tetroxide for, 1,337,253
—, —, oxide, organic, for, 1,326,040
—, —, oxygen for, 1,338,979
—, —, phenol for, 1,326,040
—, —, phosphorus oxychloride for, 1,425,500
—, —, phosphorus pentoxide for, 1,153,402
—, —, potassium bisulfate for, 1,152,098
—, —, process for, 1,136,630; 1,152,098; 1,153,402; 1,195,205; 1,195,227; 1,283,115; 1,326,040; 1,338,979; 1,425,500; 1,430,304
—, —, pumice for, 1,152,098
—, —, pyrite for, 1,195,205; 1,195,227
—, —, pyrosulfate for, 1,283,115
—, —, pyrosulfuric acid for, 1,430,304
—, —, pyrrhotite for, 1,195,227
—, —, sodium acetate for, 1,136,630; 1,153,402; 1,195,205; 1,195,227; 1,283,115; 1,337,253; 1,338,979; 1,403,920; 1,425,500; 1,430,304
—, —, sodium acetyl-sulfate for, 1,136,630
—, —, sodium bisulfate for, 1,283,115; 1,430,304
—, —, sodium hyposulfite for, 1,195,227
—, —, sodium metabisulfite for, 1,195,227
—, —, sodium nitrate for, 1,153,402
—, —, sodium (mono) orthophosphate as catalyst for, 1,298,356
—, —, sodium pyrosulfate for, 1,283,115; 1,430,304
—, —, sodium pyrosulfate as catalyst for, 1,298,356
—, —, sodium sulfide for, 1,195,227
—, —, sodium thiosulfate for, 1,195,227
—, —, sulfur for, 1,195,205; 1,195,227
—, —, sulfur chloride for, 1,403,920
—, —, sulfur chloride (SCl_2) for, 1,195,205
—, —, sulfur chloride (S_2Cl_2) for, 1,425,500
—, —, sulfur dioxide for, 1,326,040
—, —, sulfur trioxide for, 1,283,115; 1,338,979
—, —, sulfuric acid for, 1,136,630; 1,152,098; 1,153,402; 1,283,115
—, —, sulfuric acid, fuming, for, 1,136,630
—, —, sulfuric acid as catalyst for, 1,298,356
—, —, sulfuryl chloride for, 1,326,040
—, —, thioacetic acid as catalyst for, 1,298,356
—, —, tricresyl phosphate for, 1,326,040
—, —, zinc acetate for, 1,195,227
—, methyl acetyl salicylate made with, 1,255,950; 1,408,095
—, *di*-methyl-*p*-aminophenyl acetate prepared with, 1,434,429
——, methyl 3.4-methylenedioxy-*a*-piperonylamino-cinnamate made with, 1,437,802
—, 1.2-naphthothioindoxyl made with, 1,492,054
—, nitrogen tetroxide dissolved by, 1,337,253
—, phenol aldehyde condensate made with, 1,146,388; 1,505,382
—, pinene hydrochloride made with, 1,478,690
—, preparation of, 1,466,329
—, pungent compound made with, 1,329,272
Acetic anhydride, purifying, 1,467,074
—, record, phonograph, made with, 1,146,388
—, recovery from cellulose acetate mfr., 1,466,329; 1,494,816; 1,494,830
—, recovery of chlorine for, 1,466,329
—, recovery of sulfur chloride for, 1,466,329
—, rubber, artificial, made with, 1,161,904
—, separation of acetic acid from, 1,311,158
—, silk, treatment of using, 1,500,255
—, solvent for, amylene dichloride as, 1,321,307
—, —, butylene dichloride as, 1,321,307
—, —, chloroform as, 1,321,307
—, —, ethylene dichloride as, 1,321,307
—, —, olefin dichloride as, 1,321,307
—, —, propylene dichloride for, 1,321,307
—, sulfur compounds removed from, 1,467,074
—, sulfuryl chloride in mfr. of, 1,364,738
—, therapeutic compound made with, 1,250,345
—, tuberculosis, substance for treatment of, made with, 1,250,345
—, vanillyl-acetyl-amide from, 1,329,272
—, varnish made with, 1,216,462
—, vinyl acetate from, 1,425,130
—, wool, treatment of using, 1,500,255
Acetic-arsenious anhydride, arsenic, compound made with, 1,521,560
—, compound $(CHAs)_x$, made with, 1,521,560
—, —, CH_3O_2As, made with, 1,521,560
Acetic arsenic acid, calcium salts of, 1,445,685
—, ethyl ester of, properties of, 1,445,685
—, preparation of, 1,445,685
—, properties of, 1,445,685
—, *see Arsone-acetic acid*
—, *ethyl ester of, see Ethyl arsono-acetate*
Acetic arsinic acid ester, preparation of, 1,445,685
Acetic cellulose, see Cellulose acetate
Acetic ester, alkaloids extracted by, 1,447,400
—, cellulose nitrate explosive contg., 1,303,115
—, *see also Ethyl acetate*
Acetic ether, see Ethyl acetate
Acetic oil, essential oils made with, 1,158,217
Acetic oxide, see Acetic anhydride
Acetic paraldehyde, see Paraldehyde
Acetic phenyl-hydrazide, flotation of chalcocite by, 1,364,306
—, flotation of chalcopyrite by, 1,364,306
—, flotation of copper sulfide by, 1,364,306
—, flotation of minerals by, 1,364,306
—, flotation of porphyry ores by, 1,364,306
—, *see a-Acetyl-b-phenyl-hydrazine*
Acetic propionic anhydride, mfr. of, process for, 1,136,630
—, —, sodium acetyl-sulfate for, 1,136,630
—, —, sodium propionate for, 1,136,630
Acetic thio-anhydride, see Acetyl sulfide
Acetin, almond oil solvent, 1,378,099
—, aniline black solvent, 1,421,728
—, bitter almond oil solvent, 1,378,099
—, bottle cap made with, 1,502,940
—, cellulose acetate (acetone soluble), made with, 1,241,995
—, cellulose acetate plasticizer for, 1,360,759; 1,520,054
—, cellulose nitrate plasticizer, 1,360,759
—, cellulose nitrate stabilized with, 1,338,691.
—, dye contg., 1,367,930

Acetin, essential oil solvent, 1,378,099
—, flavoring extract made with, 1,378,099; 1,497,439
—, glycerol from, 1,466,665
—, glyceryl trinitrate for dissolving, 1,338,691
—, hygroscopic properties of, 1,360,759
—, ink, stamping, made with, 1,421,728
—, lemon oil solvent, 1,378,099
—, mfr. of, acetic acid for, 1,146,854; 1,509,864
—, —, acetic acid, glacial, for, 1,378,099
—, —, alkali acetate for, 1,509,864
—, —, alkali earth acetate for, 1,509,864
—, —, calcium acetate for, 1,509,864
—, —, glycerol for, 1,378,099; 1,509,864
—, —, potassium acetate for, 1,509,864
—, —, process for, 1,378,099; 1,509,864
—, —, sodium acetate for, 1,378,099; 1,509,864
—, —, sulfuric acid for, 1,378,099; 1,509,864
—, orange oil solvent, 1,378,099
—, paint remover made with, 1,146,854
—, peppermint oil solvent, 1,378,099
—, perfume made with, 1,378,099; 1,497,439
—, perfumery extracts made with, 1,378,099
—, sealing cap made with, 1,520,054
—, stamping ink contg., 1,421,728
—, varnish remover made with, 1,146,854
—, viscose protected against mercerizing action of sodium hydroxide by, 1,392,833
—, *see also Diacetin; Glyceryl acetate; Glyceryl triacetate; Triacetin*
Acetin blue, see Induline
Acet-*p*-naphthylenediamine, dyestuff made with, 1,217,042
Acetoacetanilide, dyestuff made with, 1,237,192; 1,237,193; 1,457,235
Acetoacetanilide-*p*-carboxylic acid, dyestuff made with, 1,457,235
Acetoacetic-anilide, dyestuff made with, 1,125,074; 1,150,675; 1,216,812; 1,227,406; 1,245,694
—, *see also Acetoacetanilide*
Acetoacetic-anilide-*p*-carboxylic acid, dyestuff made with, 1,125,073; 1,126,413
—, mfr. of, acetoacetic ester for, 1,126,413
—, —, alcohol for, 1,126,413
—, —, ethyl-*p*-aminobenzoate for, 1,126,413
—, —, hydrochloric acid for, 1,126,413
—, —, naphtha, solvent, for, 1,126,413
—, —, process for, 1,126,413
—, —, sodium hydroxide for, 1,126,413
Acetoacetic-*o*-anisidide, dyestuff made with, 1,159,386
Acetoacetic-*p*-anisidide, dyestuff made with, 1,125,073; 1,125,074; 1,159,386
Acetoacetic-chlor-anilide, dyestuff made with, 1,159,386
Aceto-acetic-*o*-chloranilide, dyestuff made from, 1,457,235
Acetoacetic-cresidide, see 3-Acetoacetylamino-4-methoxy-toluene
Acetoacetic ester, acetoacetic-anilide-*p*-carboxylic acid made with, 1,126,413
—, tropinone esters prepared from, 1,419,092
—, *see also Ethyl acetoacetate*
Acetoacetic ether, see Ethyl acetoacetate
Acetoacetic ethyl ester see Ethyl acetoacetate
Acetoacetic-*m*-xylidide, dyestuff made with, 1,159,386
N-Acetoacetyl-*N'*-(acetoacetamino-benzoyl)-phenylenediamine, dyestuff made with, 1,505,569
3-Acetoacetylamino-4-methoxy-toluene, dyestuff made with, 1,159,386
1-(4'-Acetoacetylamino-phenyl)-5-methyl-benzothiazole, dyestuff made with, 1,506,514
N-Acetoacetyl-aniline, see Acetoacetic anilide
Acetoacetyl-dehydrothiotoluidid, see 1-(4'-Acetoacetylamino-phenyl)-5-methyl-benzothiazole
Acet-o-amido-toluene, see Acet-o-toluide
Aceto-o-amidotoluene, see o-Acet-toluide
Acetocellulose sulfuric acid esters, see Cellulose acetate, sulfuric acid esters
Acetochlorhydrin, cellulose acetate solvent contg., 1,244,107; 1,244,108; 1,244,347; 1,244,348; 1,244,349; 1,319,229
Acetocinnamone, see Benzylidene acetone
Acetodichlorhydrin, amber, imitation, made with, 1,245,476
—, amber substitute made with, 1,386,576
—, celluloid substitute made with, 1,245,476; 1,386,576
—, cellulose acetate plasticizer, 1,388,472
—, cellulose acetate solvent contg., 1,244,107; 1,244,108; 1,244,347; 1,244,348; 1,244,349; 1,245,476; 1,386,576
—, finish remover made with, 1,172,773
—, horn, imitation, made with, 1,245,476
—, horn substitute made with, 1,386,576
—, ivory, imitation, made with, 1,245,476
—, ivory substitute made with, 1,386,576
—, marble, imitation, made with, 1,245,476
—, plastic made with, 1,386,576
—. *see also 1.3-Dichlor-2-propyl acetate*
Aceto-p-iodoanilide, see Iodoacetanilide
Acetol, see Acetylmethyl alcohol
—, *see also 1-Hydoxy-2-propanone*
—, *esters of, see Acetonyl compounds*
Acetol salicylic ether, see Salacetol
Acetol triacetylgallate, see Acetonyl 3.4.5-triacetoxy-benzoate
Acetonal, see Aluminum-sodium acetate
1-Acetonaphthone, 2-(1'-naphthyl)-cinchoninic acid made with, 1,197,462; Re-14,216
2-Acetonaphthone, 2-(2'-naphthyl)-cinchoninic acid made with, 1,197,462; Re-14,216
Acetonaphton, see Acetonaphthone
Acetone, abalone, imitation, made with, 1,434,157
—, abrasive wheel made with, 1,435,721
—, absorbing, sodium bisulfite for, 1,441,205
—, acaroid, nitrated, contg., 1,151,180
—, —, —, made with, 1,151,180
—, *p*-acetamidophenyl bromdiethylacetylcarbamate made with, 1,256,293
—, "acetate liquor" contg., 1,192,987
—, acetic acid, freezing point of mixture of and, 1,276,742
—, acetone substitute contg., 1,260,977
—, acetylene, storage material for, made with, 1,332,525
—, acetylene recovered with, 1,422,183

Acetone, acetylene solvent, 1,140,124; 1,234,600; 1,332,525; 1,405,805; 1,405,806; 1,419,746; 1,419,862; 1,422,182; 1,465,600
—, acetylene stored using, 1,234,600
—, acetylene stored under pressure using, 1,230,531
—, *b*-acetylethyl-diethylamine made with, 1,126,549
—, acid-proofing made with, 1,241,738
—, action on phenol-aldehyde condensates, 1,442,420
—, adhesive made with, 1,158,962; 1,379,837; 1,389,084; 1,389,574; 1,389,575
—, adhesive of celluloid and, 1,389,575
—, adhesive for radium luminous material contg., 1,364,950
—, air explosive mixtures of and, 1,143,623
—, airplane dope contg., 1,156,894; 1,303,563; 1,315,216; 1,320,290; 1,329,386; 1,347,801; 1,363,763; 1,366,256; 1,388,827; 1,388,828; 1,393,355; 1,400,430; 1,426,521; 1,427,941; 1,429,295; 1,440,178; 1,469,839; 1,488,608
—, airplane dope made fireproof with, 1,309,581
—, airplane fabric made with, 1,427,941; 1,429,295
—, airplane fabric mending composition made with, 1,389,084
—, airplane fuel contg., 1,420,006
—, airplane lacquer contg., 1,345,354
—, albumen made with, 1,277,727
—, albumen metal compounds treated with, 1,371,380; 1,371,381
—, albumose solution made with, 1,489,181
—, alcohol, solidified, made with, 1,313,876; 1,416,493; 1,503,835
—, alkali acetyl-salicylate made with, 1,217,862
—, alkali amide, action of and, 1,169,341
—, alkali benzyl succinate made with, 1,485,377; 1,485,379
—, alkali bichromate made with, 1,310,720
—, alkali cyanide made with, 1,322,195
—, alkali earth acetyl-salicylate made with, 1,217,862
—, alkali metal, action of and, 1,169,341
—, alkali-proofing made with, 1,241,738
—, alkali sludge sulfonates made with, 1,493,111
—, alkamine amino-alkoxy-benzoic acid ester solvent, 1,317,250
—, alloy resistant to, 1,393,388
—, allylmorphine-diallylbarbituric acid made with, 1,255,423
—, aluminum acetate, therapeutic compound of, solvent, 1,132,709
—, aluminum chloride solvent, 1,383,864
—, aluminum filings, coated, made with, 1,204,709
—, aluminum sludge sulfonate solvent, 1,495,891
—, amber, imitation, made with 1,199,798; 1,245,476
—, amber substitute made with, 1,241,738; 1,386,576; 1,502,945
—, 1-amino-4-anilino-2-methyl-anthraquinone made with, 1,394,851
—, *m*-aminoanisic acid, alkamine ester of, solvent, 1,317,250
—, 4-amino-*S*-argento-thiosalicylic acid made with, 1,439,624
Acetone, *o*-aminomethoxybenzoic acid, alkamine ester of, solvent, 1,317,250
—, *p*-aminomethoxybenzoic acid, alkamine ester of, solvent, 1,317,250
—, amine methyl sulfites purified with, 1,426,348
—, ammonium benzyl succinate made with, 1,485,377; 1,485,379
—, *tert*-amyl vanadate solvent, 1,133,961
—, analgesic made with, 1,478,463; 1,483,217
—, anthraquinone derivatives mfr. with, 1,394,851
—, antimony chloride solvent, 1,383,864
—, antimony trichloride dissolved by, 1,451,313
—, antimony trichloride solvent, 1,388,828; 1,388,829
—, antiseptic made with, 1,145,634
—, *d*-arabinose for mfr. of, 1,293,172
—, arsenophenylglycine formaldehyde derivative made with, 1,299,214
—, *N*-(*p*-arsenophenylglycine)-*bis*-*m'*-hydroxy-anilide, sodium salt of, mfr. of with, 1,315,127
—, *N*-(arsinosophenyl)glycyl-*m'*-aminophenol solvent, 1,280,122
—, *N*-(*p*-arsinosophenyl)-*a*-phenyl-glycinamide solvent, 1,280,122
—, arsono-acetic acid made with, 1,445,685
—, *N*-(*p*-arsonophenyl)glycyl-*m'*-aminophenol, sodium salt of, made with, 1,280,121
—, arsenic compound, organic, prepared with, 1,445,685
—, arsenical solution contg., 1,456,509
—, article, indurated, contg., 1,269,292
—, atophan, benzyl ester of, made with, 1,378,343
—, azo-resins made with, 1,500,844
—, bactericide made with, 1,145,634
—, balloon fabric made with, 1,427,941
—, banana plant, treatment of with, 1,271,591
—, barium acetyl-salicylate made with, 1,217,862
—, battery, storage, electrode for, made with, 1,439,994
—, —, —, separator for, made with, 1,500,220
—, —, —, temperature indicating device for, made with, 1,374,857
—, beet molasses for mfr. of, 1,293,172
—, belting made with, 1,179,357
—, belting, composite, made with, 1,160,041
—, benzyl acetylsalicylate, solubility of in, 1,436,304
—, benzyl cellulose solvent, 1,454,960; 1,484,004
—, benzyl lithium succinate made with, 1,485,377; 1,485,379
—, benzyl potassium succinate made with, 1,485,377; 1,485,379
—, benzyl sodium succinate made with, 1,485,377; 1,485,379
—, binder made with, 1,409,275
—, 1.3-bis(diethylamino)-2-propyl-benzoate made with, 1,193,634
—, 1.3-bis(diethylamino)-2-propyl-toluate made with, 1,193,634
—, 1.3-bis(*N*-ethyl-*N*-methyl-amino)-2-propyl benzoate made with, 1,193,634
—, 2.2-bis(hydroxy-phenyl)-propane made with, 1,225,748; 1,225,749; 1,225,750
—, 2.2-bis(hydroxy-tolyl)-propane made with, 1,225,750

Acetone, bismuth acetyl-salicylate made with, 1,217,862
—, bismuth chloride solvent, 1,383,864
—, blood clotting substance made with, 1,240,694
—, boat mending composition made with, 1,389,084
—, bookbinding gum contg., celluloid and, 1,389,574
—, boric acid dissolved by, 1,358,914
—, boric acid solvent, 1,469,839
—, bottle cap made with, 1,502,940
—, brake band contg., 1,307,857
—, brake lining made with, 1,429,267
—, 2-brom-3.5-dinitro-4-methylnitramino-benzenearsonic acid solvent, 1,180,627
—, bronzing liquid made with, 1,488,608
—, brush, celluloid-back, made with, 1,472,165
—, button made with, 1,452,086
—, *n*-butyl-*b*-diethylamino-ethyl-*p*-aminobenzoate hydrochloride dissolved by, 1,334,642
—, butyric acid mixed with sulfuric acid and, 1,425,580
—, byproduct in charcoal mfr., 1,458,410
—, calcium acetyl-salicylate made with, 1,217,862; 1,225,407
—, calcium carbide condensed with, 1,370,843
—, calcium chloride, dried by hydrogen chloride dissolved in, 1,354,279
—, calcium lactate for mfr. of, 1,293,172
—, calcium oxide, action of on, 1,332,525
—, calf hide, water-proofing of using, 1,150,047
—, camphor solvent, 1,367,886
—, cane, degumming of, using, 1,148,698
—, —, retting of, using, 1,148,698
—, —, treatment of with, 1,271,591
—, carbohydrates for mfr. of, 1,293,172
—, carbon monoxide solubility of in, 1,438,581
—, carbon monoxide solvent, 1,438,581
—, carbon remover made with, 1,167,770; 1,287,589
—, carbon remover contg., 1,307,562; 1,455,574
—, carbon remover for internal-combustion engines, 1,296,832
—, carbon tetrachloride, freezing point of mixture of and, 1,270,394
—, cardboard, composite, made with, 1,354,154
—, case hardening using, 1,492,192
—, casein plastic contg., mfr. of, 1,452,086
—, cellite solvent, 1,179,357
—, cellon treated within, 1,514,677
—, celluloid made with, 1,364,342; 1,430,020; 1,467,749; 1,468,820; 1,508,483; 1,508,484
—, celluloid, alcohol and, dissolved in, 1,388,169
—, —, gold leaf, separation from, of with, 1,287,793
—, celluloid article made with, 1,434,157
—, celluloid cemented with, 1,434,157; 1,478,058
—, celluloid coloring solution contg., 1,446,049; 1,446,050
—, celluloid dyed using, 1,234,450; 1,248,468
—, celluloid solvent, 1,128,094; 1,140,174; 1,141,224; 1,150,047; 1,153,574; 1,160,041; 1,181,758; 1,202,495; 1,205,822; 1,210,987; 1,221,457; 1,223,538; 1,287,793; 1,294,355; 1,300,550; 1,322,631; 1,326,639; 1,331,127; 1,342,767; 1,352,216; 1,366,256; 1,370,853; 1,377,677; 1,389,574; 1,389,575; 1,393,290; 1,408,816; 1,419,998; 1,425,510; 1,443,012; 1,446,049; 1,446,050; 1,461,161; 1,467,749; 1,472,165; 1,477,880; 1,477,881; 1,477,882; 1,477,883
Acetone, celluloid substitute made with, 1,153,596; 1,158,961; 1,160,063; 1,181,853; 1,181,860; 1,185,074; 1,188,356; 1,189,841; 1,195,040; 1,199,798; 1,200,886; 1,245,476; 1,216,581; 1,217,027; 1,241,738; 1,331,127; 1,353,384; 1,353,385; 1,363,763; 1,386,576; 1,420,028; 1,440,006; 1,488,294; 1,501,206; 1,508,928; 1,510,779; 1,512,751
—, cellulose made with, 1,509,273
—, cellulose, colloidal, made with, 1,458,542
—, cellulose, vulcanized, made with, 1,236,959;
—, cellulose acetate contg., 1,429,153
—, cellulose acetate, colloidal, made with, 1,392,849
—, —, hydrated solvent, 1,316,311
—, cellulose acetate coagulating bath contg., 1,467,493
—, cellulose acetate solvent, 1,128,468; 1,132,384; 1,133,385; 1,136,248; 1,142,619; 1,143,877; 1,143,878; 1,143,979; 1,156,894; 1,160,979; 1,165,179; 1,175,791; 1,181,758; 1,181,857; Re-14,338; 1,181,860; 1,184,257; 1,185,514; 1,188,797; 1,188,798; 1,188,799; 1,188,800; 1,195,040; 1,195,673; 1,199,798; 1,199,800; 1,201,260; 1,203,756; 1,216,581; 1,217,722; 1,226,342; 1,236,578; 1,242,783; 1,244,107; 1,244,108; 1,244,347; 1,244,348; 1,244,349; 1,245,476; 1,260,977; 1,275,884; 1,286,172; 1,298,199; 1,303,563; 1,309,980; 1,310,841; 1,316,311; 1,319,229; 1,320,290; 1,338,661; 1,342,601; 1,342,602; 1,342,603; 1,343,135; 1,351,652; 1,353,384; 1,353,385; 1,354,401; 1,354,726; 1,357,447; 1,363,763; 1,370,879; 1,386,576; 1,388,472; 1,392,849; 1,393,355; 1,394,890; 1,395,401; 1,397,103; 1,406,224; 1,408,095; 1,410,790; 1,417,587; 1,418,347; 1,420,028; 1,421,341; 1,426,521; 1,429,295; 1,432,367; 1,434,634; 1,437,828; 1,437,829; 1,440,006; 1,440,178; 1,441,185; 1,449,157; 1,453,764; 1,454,959; 1,454,960; 1,454,961; 1,463,864; 1,465,937; 1,465,994; 1,467,493; 1,469,815; 1,476,392; 1,478,137; 1,484,004; 1,488,294; 1,494,479; 1,494,816; 1,494,830; 1,501,206; 1,508,928; 1,516,225
—, cellulose acetate solvent with diethyl phthalate, 1,449,156
—, cellulose acetate tested for ripeness with, 1,458,592
—, cellulose acetone solvent, 1,397,103; 1,398,939
—, cellulose aceto-nitrate solvent, 1,168,164; 1,454,961; 1,497,321
—, cellulose butyrate solvent, 1,425,580; 1,425,581
—, cellulose dispersed in, 1,458,542
—, cellulose esters contg., 1,429,153; 1,458,542
—, cellulose ester, colloidal, made with, 1,392,849
—, cellulose ester solvent, 1,295,533; 1,316,311; 1,345,354; 1,351,652; 1,370,853; 1,389,084; 1,397,986; 1,408,095; 1,408,423; 1,429,153; 1,437,952; 1,454,959; 1,454,960; 1,454,961
—, cellulose ester substitute made with, 1,241,738
—, cellulose ethers contg., 1,429,153
—, cellulose ether, mixed, solvent, 1,454,959
—, —, solvent contg., 1,469,816

Acetone, cellulose ether film prevented from curling by, 1,429,179
—, cellulose ether solvent, 1,217,027; 1,217,028; 1,389,084; 1,429,179; 1,437,952; 1,454,959; 1,454,960; 1,454,961; 1,467,098; 1,467,099; 1,467,100; 1,467,101; 1,467,102; 1,467,103; 1,467,104; 1,467,105; 1,500,366
—, cellulose fibers made with, 1,509,273
—, cellulose formate, colloidal, made with 1,392,849
—, —, solvent for, contg., 1,260,977
—, cellulose formate precipitated by, 1,153,596
—, cellulose formate solvent, 1,316,311; 1,392,849
—, cellulose formyl-phosphate precipitated by, 1,153,596
—, cellulose nitrate contg., 1,429,153; 1,509,273
—, cellulose nitrate cement made with, 1,494,479
—, cellulose nitrate chlorinated with, 1,323,792
—, cellulose nitrate coating made with, 1,320,458
—, cellulose nitrate coating made fireproof with, 1,309,581
—, cellulose nitrate, colloidal, made with, 1,392,849
—, —, screens for, cleaned with, 1,367,111
—, —, water, removal of from, using, 1,510,739
—, cellulose nitrate composition, screens for, cleaned with, 1,367,111
—, cellulose nitrate dissolved by, alcohol and, 1,388,169
—, cellulose nitrate explosive contg., 1,303,115
—, cellulose nitrate gelatinizer, 1,468,608
—, cellulose nitrate plastic substitute made with, 1,502,945
—, cellulose nitrate solvent contg., 1,135,026; 1,139,112; 1,141,224; 1,142,619; 1,143,877; 1,143,878; 1,147,850; 1,158,961; 1,160,041; 1,160,979; 1,173,628; 1,181,758; 1,194,095; 1,195,040; 1,197,304; 1,204,709; 1,208,358; 1,256,240; 1,260,977; 1,269,339; 1,290,794; 1,309,981; 1,316,311; 1,320,458; 1,321,611; 1,321,633; 1,321,634; 1,323,624; 1,323,792; 1,324,227; 1,327,197; 1,329,386; 1,329,525; 1,342,601; 1,342,602; 1,351,652; 1,354,401; 1,356,440; 1,360,759; 1,370,853; 1,370,878; 1,370,922; 1,377,761; 1,379,596; 1,380,258; 1,382,077; 1,388,546; 1,390,537; 1,393,355; 1,394,890; 1,398,239; 1,398,525; 1,398,939; 1,408,095; 1,410,790; 1,415,059; 1,418,347; 1,421,341; 1,427,941; 1,429,174; 1,429,295; 1,430,020; 1,431,900; 1,432,368; 1,434,453; 1,434,454; 1,437,828; 1,437,829; 1,441,203; 1,441,204; 1,441,205; 1,449,157; 1,453,764; 1,454,961; 1,456,782; 1,463,864; 1,464,012; 1,466,733; 1,469,815; 1,469,839; 1,476,392; 1,480,016; 1,484,004; 1,493,207; 1,493,208; 1,497,137; 1,497,138; 1,503,835; 1,510,739; 1,518,396
—, cellulose nitrate solvent of alcohol and, 1,290,073
—, cellulose nitrate solvent with diethyl phthalate, 1,449,156
—, cellulose sulfoacetate, solvent for, contg., 1,260,977
—, cement made with, 1,158,962; 1,354,154; 1,502,945
—, cement paint contg., 1,189,550
—, ceresin solvent, 1,277,904
Acetone, cerium acetyl-salicylate made with, 1,217,862
—, chewing gum made with, 1,397,742
—, China wood oil, gelatinized, dispersed in, 1,411,371
—, China wood oil solidified by iron chloride solutions in, 1,383,864
—, chloral hydrate solvent, 1,354,401
—, chloranthracenes dissolved by, 1,342,601; 1,342,602
—, 2-chlor-3.5-dinitro-4-methylnitramino-benzenearsonic acid solvent, 1,180,627
—, chlorinated, preparing, 1,436,378
—, —, *see also Chloroacetones*
—, chlornaphthalenes dissolved by, 1,342,601; 1,342,602
—, chloroform made with, 1,203,032; 1,359,099
—, cigarette tip made with, 1,153,574
—, clay, clarifying, revivifying of, using, 1,488,805
—, —, decolorizing, revivifying of, using, 1,488,805
—, cleaner made with, 1,201,181; 1,240,395
—, coating made with, 1,146,214; 1,241,738
—, coating composition made with, 1,189,550; 1,189,551; 1,330,421; 1,358,914; 1,392,040; 1,395,242
—, coating composition, visibility reducing, made with, 1,426,521
—, coating composition contg. celluloid and, 1,330,421
—, collar, linen, substitute made with, 1,256,240
—, collar waterproofing composition contg., 1,453,764
—, colloid made with, 1,502,945
—, colloidal suspensions prepared with, 1,444,257
—, color carrier made with, 1,206,000
—, color screen made with, 1,206,000
—, colored light made with, 1,388,501
—, composite article made with, 1,418,891; 1,441,133
—, concentration of, alum for, 1,492,717
—, —, aluminum sulfate for, 1,492,717
—, —, ammonium aluminum sulfate for, 1,492,717
—, —, calcium chloride for, 1,492,717
—, —, copper sulfate for, 1,492,717
—, —, iron sulfate for, 1,492,717
—, —, ore for, 1,448,929
—, —, process for, 1,492,717
—, —, salt cake for, 1,492,717
—, concrete, coating composition for, made with, 1,189,550; 1,189,551
—, concrete article made with, 1,379,837
—, concrete coating contg., 1,400,041
—, condensation products of, flotation agents from, 1,415,899
—, Condensite solvent, 1,435,721
—, condiment made with, 1,324,538
—, containers for, coating, algae extract for, 1,456,494
—, —, —, Irish moss extract for, 1,456,494
—, copper, coating for, made with, 1,273,954
—, copying foil made with, 1,499,844
—, corn for mfr. of, 1,293,172
—, corn cobs for mfr. of, 1,293,172
—, cotton, water-proofing of, using, 1,395,242

Acetone, cotton line, water-proofing of, using, 1,165,179
—, *m*-cresol condensation product of, 1,421,722
—, *p*-cresol condensation product of, 1,421,722
—, *m*-cresol condensed with, 1,414,045
—, *p*-cresol condensed with, 1,414,045
—, cyanide made with, 1,322,195
—, cyclotrimethylenetrinitramine solvent, 1,402,693
—, decalcomania made with, 1,331,581
—, decomposition of, nichrome for, 1,299,988
—, denatured, finish remover made with, 1,172,773
—, —, varnish remover made with, 1,328,080
—, dental filling made with, 1,294,355
—, *derivatives of, see also Compounds with Acetonyl group; 2-Propane, derivatives of,*
—, detergent made with, 1,493,111
—, detonator made with, 1,194,095
—, dextrin for mfr. of, 1,293,172
—, dextrose for mfr. of, 1,293,172
—, diabetes, compound for treatment of made with, 1,469,994; 1,470,024
—, diacetin solvent contg., 1,488,294
—, diacetone alcohol contg., 1,474,035
—, diacetone amine made with, 1,473,285
—, diaphragm, sound reproducing, made with, 1,213,051; 1,492,982
—, 2-diazo-4.6-dinitro-phenol made with, 1,460,708
—, diazodinitrophenol plasticizer, 1,428,011
—, diazodinitrophenol solvent, 1,428,011; 1,460,708
—, dibenzyl sodium phosphate made with, 1,485,377
—, didymium acetyl-salicylate made with, 1,217,862
—, *N*-diethyl-aminoethyl-*m*-aminoanisate solvent, 1,317,250
—, *N*-diethyl-aminoethyl-*o*-amino-*p*-toluate solvent, 1,317,251
—, *N*-diethyl-aminoethyl-*p*-amino-*o*-toluate solvent, 1,317,251
—, diethylaminoethyltheobromine solvent, 1,414,333
—, 1-diethylaminoethyl-theobromine hydrochloride solvent, 1,414,333
—, 3-diethylamino-1-propyl anisate made with, 1,193,650
—, 3-diethylamino-1-propyl *p*-toluate made with, 1,193,649; 1,193,651
—, di-hexamethylenetetramine sulfosalicylate solvent, 1,133,916
—, dihydroxy-diphenyl-dimethyl-methane made with, 1,188,356
—, dihydroxy-diphenyl-dimethyl-methane aldehyde condensate made with, 1,158,962; 1,158,963; 1,158,964
—, dihydroxy-diphenyl-dimethyl-methane aldehyde condensate solvent, 1,158,962; 1,158,963; 1,158,964
—, dihydroxy-diphenyl-dimethyl-methane solvent, 1,156,969; 1,158,961
—, 3-dimethylaminomethyl-6-methyl-3-heptanyl benzoate made with, 1,150,253
—, 3-dimethylaminomethyl-6-methyl-3-heptanyl benzoate hydrochloride made with, 1,150,253
Acetone, 3-dimethylaminomethyl-6-octanyl-benzoate hydrochloride made with, 1,150,580
—, 5-5′-dimethyldibromindigo, reaction with, 1,412,038
—, dimethylindigo from, 1,412,038
—, dioxydiphenyldimethylmethane for, 1,397,144
—, disinfectant made with, 1,457,708
—, dispersing agent, 1,458,542
—, dope made with, 1,347,801; 1,353,384; 1,353,385; 1,501,206; 1,508,928
—, drug extracts made with, 1,167,230
—, duck, water-proofing of, using, 1,395,242
—, dye, film, cellulose acetate, removal from of, using, 1,497,137; 1,497,138
—, —, —, cellulose ether, removal from of, using, 1,497,137; 1,497,138
—, —, —, cellulose nitrate, removal from of, using, 1,497,137; 1,497,138
—, —, —, photographic, removal from of, using, 1,497,137; 1,497,138
—, dye extracted by, 1,303,426
—, dyestuff made with, 1,176,363; 1,280,648; 1,326,665; 1,359,969; 1,497,262; 1,500,844
—, dyestuff, black, solvent, 1,134,486
—, dyestuff recovered using, 1,303,426
—, egg yolk oil made with, 1,277,727
—, enamel made with, 1,137,374
—, enamel contg., mfr. of, 1,452,219
—, enamel, undercoating composition for, made with, 1,425,510
—, enamel remover made with, 1,381,485
—, enameling composition contg., 1,449,157
—, ergot alkaloids purified with, 1,394,233
—, ergotamine crystallized from, 1,435,187
—, ergotamine salts crystallized from, 1,435,187
—, esparto, degumming of, using, 1,148,698
—, —, retting of, using, 1,148,698
—, —, treatment of with, 1,271,591
—, esters mfr. with, 1,459,971
—, etching, film, photographic, treatment of for, made with, 1,256,981
—, ethyl alcohol, denatured, made with, 1,176,150; 1,176,462
—, ethyl benzyl cellulose solvent, 1,454,960
—, ethyl cellulose, solvent for contg., 1,469,812
—, ethyl cellulose solvent, 1,188,376; 1,217,027; 1,217,028; 1,429,153; 1,429,179; 1,432,366; 1,432,367; 1,432,368; 1,441,142; 1,454,959; 1,454,960; 1,454,961; 1,467,071; 1,467,098; 1,467,099; 1,467,100; 1,467,101; 1,467,102; 1,467,103; 1,467,104; 1,467,105; 1,469,816; 1,500,366
—, ethylene made with, 1,211,395
—, ethylene recovery with, 1,422,184
—, ethylene solvent, 1,211,395
—, ethyl ether, impurity in of, 1,507,337
—, ethylmorphine-diallylbarbituric acid made with, 1,255,423
—, ethyl starch solvent, 1,350,820
—, explosive made with, 1,151,180; 1,202,712; 1,306,440
—, explosive, container for, made with, 1,329,503
—, —, removal from of, process for, 1,237,551
—, extract, flavoring, made with, 1,324,538
—, fabric, coated, made with, 1,141,224; 1,316,782; 1,316,783; 1,395,242

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—, —, fireproofing of using, 1,388,827; 1,388,828
—, —, impregnating of, using, 1,327,197; 1,388,169
—, —, rubber coated, made with, 1,184,015
—, fabric, waterproof, made with, 1,468,820
—, —, waterproofing of, made with, 1,141,224; 1,327,197; 1,388,169; 1,388,827; 1,388,828; 1,395,242
—, fabric treating solution contg., 1,417,587
—, fat made with, 1,193,951
—, fat, emulsion of, made using, 1,230,599
—, —, solvent for, contg., 1,260,977
—, fat solvent, 1,193,951
—, feathers, dye for, made with, 1,497,262
—, fiber, parchmentized, made with, 1,236,959
—, —, rubber coated, made with, 1,482,336
—, —, rubberized, made with, 1,483,856
—, —, vulcanized, made with, 1,236,959
—, fiber product made with, 1,236,460; 1,236,461; 1,236,959
—, fibrous plant, degumming of, using, 1,148,698
—, —, retting of, using, 1,148,698
—, filament, artificial, made with, 1,156,969; 1,217,028; 1,497,321
—, flare made with, 1,388,501
—, flax, degumming of, using, 1,148,698
—, —, retting of, using, 1,148,698
—, —, treatment of with, 1,271,591
—, flexible material made with, 1,468,820
—, floor covering made with, 1,482,336; 1,483,856
—, floor covering, slipping prevented of, using, 1,223,538
—, flooring made with, 1,383,864
—, flotation agent prepared with, 1,457,708
—, flotation of ore by, 1,448,929
—, flotation process using, 1,370,843; 1,457,708
—, fluorescent screen made using, 1,512,200
—, film made with, 1,217,027; 1,241,738; 1,347,801; 1,351,652; 1,353,384; 1,353,385; 1,354,401; 1,354,726; 1,363,763; 1,429,153; 1,429,174; 1,440,006; 1,480,016; 1,484,004; 1,488,608; 1,501,206; 1,502,945; 1,508,928; 1,514,283; 1,518,396
—, film, cellulose acetate, dye, removal of from, using, 1,497,137; 1,497,138
—, —, cellulose ether, dye, removal of from, using, 1,497,137; 1,497,138
—, —, cellulose nitrate, dye, removal of from, using, 1,497,137; 1,497,138
—, —, composite, made with, 1,476,392
—, —, flexible, made with, 1,320,458
—, —, motion picture, made using, 1,133,385; 1,158,961; 1,158,963; 1,364,342; 1,488,294; 1,496,325; 1,496,359; 1,518,409
—, —, —, colored, made with, 1,281,714
—, —, —, composite, made with, 1,469,815
—, —, photographic, made with, 1,199,800; 1,226,342; 1,229,485; 1,229,486; 1,229,487; 1,342,601; 1,342,602; 1,342,603; 1,388,472; 1,415,059; 1,429,179; 1,431,900; 1,432,366; 1,432,367; 1,432,368; 1,434,453; 1,434,454; 1,437,828; 1,437,829; 1,441,142; 1,441,185; 1,444,333; 1,486,245; 1,488,294; 1,493,000; 1,494,479; 1,500,366; 1,512,751

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—, —, —, varying porosity of, made with, 1,256,981
—, filter, ultramicroscopic made by the use of, 1,421,341
—, finish remover made with, 1,140,449; 1,145,365; 1,145,980; 1,147,851; 1,147,852; 1,160,394; 1,167,462; 1,167,640; 1,167,641; 1,172,773; 1,173,628; 1,185,641
—, fire-extinguisher made with, 1,276,742
—, fire-extinguisher contg., carbon tetrachloride and, 1,270,394
—, fireproofing made with, 1,241,738; 1,276,742
—, fireproofing composition contg., 1,310,841
—, fireproofing process using, 1,388,827; 1,388,828
—, fireworks made with, 1,204,709
—, fishing line, waterproofing of, using, 1,165,179
—, formaldehyde made with, 1,487,020
—, formaldehyde, action of and, 1,130,499
—, formaldehyde condensates soluble in, mfr. of, 1,451,843
—, formation of, 1,464,153
—, formation of, byproduct in decolorizing carbon mfr., 1,308,826
—, formation from acetic acid, 1,438,123
—, formation from acetylene, 1,421,743
—, formation from barium acetate, 1,361,131
—, formation from ethyl alcohol, 1,438,123
—, formation from geraniol, 1,430,538
—, formation from *iso*-propyl alcohol, 1,412,233; 1,438,123
—, friction fabric made with, 1,429,267
—, fuel, artificial, contg., 1,313,876
—, —, liquid, made with, 1,158,367; 1,271,115; 1,360,872; 1,420,006; 1,420,622; 1,438,823; 1,460,767; 1,469,053; 1,480,368; 1,480,372; 1,493,874; 1,496,260; 1,504,837; 1,516,757
—, fur, dye for, made with, 1,497,262
—, furfural resin solvent, 1,441,598
—, fuse, lighting torch, made with, 1,388,502
—, galactose for mfr. of, 1,293,172
—, garment, treatment of, using, 1,417,587
—, —, wear-proofing of, using, 1,417,587
—, gear made with, 1,370,666; 1,418,891; 1,514,508
—, gear, noiseless, contg., 1,269,292
—, gelatin, solvent, 1,206,189; 1,206,190
—, gelatin substitute made with, 1,217,027
—, glass, non-shatterable, made with, 1,210,987
—, —, reinforced, made with, 1,128,094; 1,228,165
—, *levo*-glucosane purified with, 1,437,615
—, glue, animal, solvent, 1,206,189; 1,206,190
—, glycerol made with, 1,193,951; 1,293,172
—, glycerol resin solvent, 1,443,935; 1,443,936
—, glycerol solvent contg., 1,193,951
—, goat hide, water-proofing of using, 1,150,047
—, gold leaf, imitation, made with, 1,160,979
—, "greenlime," constituent, 1,345,220
—, "greenlime" product contg., 1,345,220
—, grease, removal of, using, 1,240,395
—, gum solvent, 1,379,837
—, gum, artificial, made with, 1,225,748; 1,225,749; 1,225,750

Acetone, gum, artificial, solvent, 1,225,748; 1,225,749; 1,225,750
—, hair, artificial, made with, 1,217,028
—, —, dye for, made with, 1,497,262
—, hat, bast, waterproofing of using, 1,197,304
—, —, chip, waterproofing of using, 1,197,304
—, —, straw, waterproofing of using, 1,197,304
—, heater, chemical, made with, 1,506,322; 1,506,323
—, hemp, degumming of, using, 1,148,698
—, —, retting of, using, 1,148,698
—, —, treatment of with, 1,271,591
—, heptinchlorarsenoxide, made with, 1,201,692
—, heptinchlorarsonic acid (?) made with, 1,201,692
—, hexamethylenetetramine condensates soluble in, mfr. of, 1,451,843
—, hexamethylenetetramine periodide solvent, 1,226,394
—, hexamethylenetetramine solvent contg., 1,188,014
—, hexamethylenetetramine tetraiodide solvent, 1,226,394
—, hide tanned with, 1,285,144
—, homologues of, cellulose nitrate solvent contg., 1,135,026
—, horn, imitation, made with, 1,199,798; 1,245,476
—, horn substitute made with, 1,241,738; 1,386,576
—, horse chestnuts for mfr. of, 1,293,172
—, horsehair, artificial, made with, 1,347,801; 1,497,321
—, hydrocarbon, water, separation of from using, 1,472,384; 1,472,385
—, hydrogen made with, 1,211,395; 1,506,323
—, hydrogen (compressed) made with, 1,438,581
—, hydrogen purified with, 1,395,389
—, hydrogen solubility of in, 1,438,581
—, hydroxide solvent, 1,438,581
—, hypnotic made with, 1,478,463
—, hypophysis extract made with, 1,296,063; 1,296,064
—, hypophysis extract, solubility of in, 1,296,063; 1,296,064
—, incendiary composition made with, 1,382,805; 1,382,806
—, indigo derivatives, reaction of with, 1,414,335
—, inflammability of solvent mixture contg., 1,499,101
—, insecticide contg., 1,456,509
—, insulation, electric, made with, 1,156,452; 1,179,357; 1,185,074; 1,194,201; 1,236,460; 1,236,959; 1,241,738; 1,242,592; 1,242,593; 1,245,981; 1,267,883; 1,370,666; 1,392,849; 1,397,144; 1,398,143; 1,413,144; 1,413,145; 1,418,891; 1,439,056; 1,448,556; 1,452,086; 1,493,062; 1,500,844; 1,514,508
—, —, heat, made with, 1,185,074
—, iron, coating for, made with, 1,273,954
—, iron chloride dissolved by, 1,383,864
—, iron(ic) chloride solvent, 1,383,864
—, iron cleaner for contg., 1,268,237
—, iron coating for, made with, 1,146,214
—, iron filings, coated, made with, 1,204,709
—, isocyanine dye solvent, 1,374,871; 1,374,872
—, isoprene made with, 1,218,332
Acetone, isophorone made with, 1,370,843
—, ivory, imitation, made with, 1,199,798; 1,245,476
—, ivory substitute made with, 1,386,576; 1,514,509
—, jelly-like material made with, 1,502,945
—, ketone-aldehyde condensate made with, 1,482,929; 1,502,945
—, ketone-aldehyde condensate solvent, 1,482,929
—, knife handle made with, 1,452,086
—, lacquer made with, 1,137,374; 1,156,969; 1,185,514; 1,187,231; 1,195,673; 1,229,485; 1,229,486; 1,229,487; 1,241,738; 1,242,592; 1,242,593; 1,245,981; 1,347,801; 1,354,154; 1,377,677; 1,406,498; 1,437,170; 1,480,016; 1,488,608; 1,502,945
—, lacquer remover made with, 1,381,485
—, lactic acid purified using, 1,459,395
—, lactic acid solvent, 1,459,395
—, lead carbonate prepared with, 1,467,749
—, lead dioxide prepared with, 1,467,749
—, lead sulfate prepared with, 1,467,749
—, leather made with, 1,200,146
—, leather, artificial, made with, 1,140,174; 1,141,224; 1,179,357; 1,217,123; 1,269,339; 1,308,231; 1,320,458; 1,392,849; 1,493,062
—, —, —, dyeing of using, 1,186,052
—, —, —, made fireproof with, 1,309,581
—, —, coating for, 1,320,458; 1,395,242
—, —, coating composition for, made with, 1,437,170
—, —, dressing for, made with, 1,158,962
—, —, finishing the edge of, using, 1,181,758
—, —, impregnating of, using, 1,327,197; 1,388,169
—, —, patent, made with, 1,175,791
—, leather, water-proofing of using, 1,150,047; 1,327,197; 1,388,169
—, leather preservative contg., 1,390,537
—, leather rubberizing solution contg., 1,425,530
—, leather substitute made with, 1,175,791; 1,236,461; 1,256,240; 1,482,336; 1,483,856
—, lecithin made with, 1,277,727
—, lecithin-albumen made with, 1,144,829
—, leprosy, substance for treatment of, made with, 1,250,345
—, levulose for mfr. of, 1,293,172
—, light transforming composition made with, 1,188,655; 1,188,775; 1,188,776; 1,188,777
—, linen, water-proofing of, using, 1,395,242
—, linen line, water-proofing of, using, 1,165,179
—, linseed oil substitute made with, 1,500,844
—, lithium acetyl salicylate made with, 1,129,953; 1,217,862
—, lubricant made with, 1,185,682
—, lubricating oil contg., 1,384,703
—, machine oil, emulsion of, made using, 1,230,599
—, magnesium acetyl-salicylate made with, 1,217,862
—, magnesium chloride solvent, 1,469,839
—, maltose for mfr. of, 1,293,172
—, mfr. of, 1,385,866
—, —, acetate for, 1,315,544; 1,338,040
—, —, acetic acid for, 1,315,525; 1,315,544; 1,400,959

Acetone, mfr. of, acid for, 1,129,542
—, —, acrospires for, 1,169,321
—, —, air for, 1,438,123; 1,497,817
—, —, alcohols, secondary, for, 1,497,817
—, —, alkali earth acetate for, 1,315,544
—, —, alkali earth carbonate for, 1,315,544
—, —, alkali earth oxide for, 1,315,544
—, —, alkali earth propionate for, 1,470,885
—, —, alkali hydroxide for, 1,201,850
—, —, alkali propionate for, 1,470,885
—, —, apparatus for, 1,129,542; 1,148,104; 1,168,785; 1,197,983; 1,250,282; 1,327,737; 1,411,529; 1,487,456; 1,488,278; 1,499,363
—, —, asbestos for, 1,169,321; 1,201,850
—, —, *Bacillus acetobutylicum* for, 1,427,595
—, —, *Bacillus aceto-ethylicum* for, 1,293,172
—, —, bacteria for, 1,315,585; 1,329,214; 1,427,595
—, —, bacteria, *acidi propionici* for, 1,470,885
—, —, —, *Bacillus macerans,* for, 1,169,321; 1,169,322
—, —, —, Fitz type, for, 1,315,585
—, —, bacteriological process for, 1,437,697
—, —, banana plant for, 1,271,591
—, —, barium acetate as catalyst for, 1,315,525
—, —, bark for, 1,202,317
—, —, bark, waste liquor from treatment of, for, 1,487,456
—, —, barley for, 1,427,595; 1,510,526
—, —, blau gas for, 1,365,053; 1,497,817
—, —, Burton oil for, 1,365,053
—, —, calcium acetate for, 1,208,265
—, —, calcium acetate as catalyst for, 1,315,525
—, —, calcium bisulfite for, 1,129,542
—, —, calcium carbonate for, 1,327,737; 1,470,885
—, —, calcium chloride for, 1,282,805
—, —, calcium hydroxide for, 1,129,542; 1,196,290; 1,202,317
—, —, calcium oxide for, 1,202,317; 1,327,737
—, —, cane for, 1,271,591
—, —, carbohydrates for, 1,327,737; 1,427,595; 1,470,885
—, —, carbohydrates and alkalies for, 1,338,040
—, —, carbon, decolorizing, for, 1,510,526
—, —, carbon dioxide for, 1,201,850; 1,497,817
—, —, carbon dioxide as by-product of, 1,315,544
—, —, carbon electrode for, 1,365,053
—, —, carbon monoxide for, 1,201,850
—, —, cellulose for, 1,129,542; 1,327,737; 1,488,278
—, —, cellulose soda liquor for, 1,196,290; 1,197,983; 1,487,456
—, —, cellulose soda-sulfate liquor for, 1,499,363
—, —, cellulose sulfate liquor for, 1,196,290
—, —, cellulose sulfite liquor for, 1,202,317; 1,298,476; 1,298,477; 1,298,478; 1,298,479; 1,298,480; 1,298,481; 1,298,594; 1,487,456
—, —, cereal for, 1,510,526
—, —, cerium for, 1,201,850
—, —, cerium compound for, 1,201,850
—, —, cerium oxide for, 1,201,850
—, —, chalk for, 1,169,321; 1,169,322
—, —, chromium for, 1,201,850
—, —, chromium as catalyst for, 1,497,817
—, —, chromium compound for, 1,201,850
—, —, chromium oxide for, 1,201,850
—, —, cobalt for, 1,201,850
—, —, cobalt as catalyst for, 1,497,817
Acetone, mfr. of, cobalt compound for, 1,201,850
—, —, cobalt oxide for, 1,201,850
—, —, coke for, 1,497,817
—, —, copper for, 1,438,123
—, —, copper, iron coated with, for, 1,201,850
—, —, copper as catalyst for, 1,497,817
—, —, corn for, 1,169,322; 1,315,585; 1,510,526
—, —, corn cobs for, 1,516,701
—, —, corn meal for, 1,427,595; 1,510,526
—, —, cotton straw, waste liquor from treatment of, for, 1,487,456
—, —, "Darco" for, 1,510,526
—, —, diatomaceous earth for, 1,201,850
—, —, distilling cellulose waste liquors by, 1,347,713
—, —, durra for, 1,315,585
—, —, electrolytic process for, 1,365,053
—, —, esparto for, 1,271,591
—, —, esparto, waste liquor from treatment of, for, 1,487,456
—, —, ethyl alcohol for, 1,438,123
—, —, fermentation process for, 1,293,172
—, —, ferro-manganese as catalyst for, 1,315,525
—, —, flax for, 1,271,591; 1,315,585
—, —, fructose for, 1,510,526
—, —, fruit peel for, 1,169,321
—, —, garbage for, 1,307,991; 1,307,992
—, —, gasolene for, 1,365,053
—, —, gasolene, cracked, for, 1,497,817
—, —, glucose for, 1,510,526
—, —, grain for, 1,427,596; 1,510,526
—, —, granulabacter organisms for, 1,510,526
—, —, grass, waste liquor from treatment of, for, 1,487,456
—, —, gravel for, 1,497,817
—, —, "gumcarbon" by product, 1,476,242
—, —, hemp for, 1,271,591
—, —, hydrocarbon, olefin, for, 1,365,053; 1,497,817
—, —, hydrogen for, 1,201,850
—, —, iron for, 1,315,544; 1,497,817
—, —, iron, copper coated, for, 1,201,850
—, —, iron as catalyst for, 1,497,817
——, —, iron hydroxide for, 1,196,290
—, —, kelp for, 1,168,785
—, —, lactate for, 1,470,885
—, —, lactose for, 1,470,885
—, —, lead electrode for, 1,365,053
—, —, limestone for, 1,470,885
—, —, magnesia for, 1,201,850
—, —, magnesium acetate as catalyst for, 1,315,525
—, —, magnesium hydroxide for, 1,196,290
—, —, malt culms for, 1,169,321
—, —, manganese for, 1,201,850
—, —, manganese as catalyst for, 1,315,525
—, —, manganese acetate as catalyst for, 1,315,525
—, —, manganese alloy as catalyst for, 1,315,525
—, —, manganese compound for, 1,201,850
—, —, manganese compound as catalyst for, 1,315,525
—, —, manganese oxide for, 1,201,850
—, —, mannose for, 1,293,172
—, —, metal for, 1,315,544
—, —, milk, skimmed, for, 1,470,885

Acetone, mfr. of, molasses for, 1,169,321; 1,293,172; 1,510,526
—, —, molasses, black strap, for, 1,510,526
—, —, molybdenum for, 1,201,850
—, —, molybdenum compound for, 1,201,850
—, —, molybdenum oxide for, 1,201,850
—, —, Monel metal as catalyst for, 1,497,817
—, —, nichrome as catalyst for, 1,497,817
—, —, nickel as catalyst for, 1,497,817
—, —, nitrogen for, 1,497,817
—, —, "Norit" for, 1,510,526
—, —, oak, white, for, 1,488,278
—, —, oats for, 1,169,322; 1,315,585
—, —, osmium for, 1,201,850
—, —, osmium compound for, 1,201,850
—, —, osmium oxide for, 1,201,850
—, —, oxide for, 1,315,544
—, —, oxygen for, 1,365,053; 1,497,817
—, —, palladium for, 1,201,850
—, —, palladium compound for, 1,201,850
—, —, palladium oxide for, 1,201,850
—, —, paper, filter, for, 1,169,321
—, —, peat for, 1,169,321
—, —, petroleum for, 1,365,053
—, —, petroleum, cracked, for, 1,497,817
—, —, petroleum still gas for, 1,497,817
—, —, petroleum vapor for, 1,497,817
—, —, phosphate minerals for, 1,282,805
—, —, phosphoric acid for, 1,497,817
—, —, Pintsch gas for, 1,365,053; 1,497,817
—, —, platinized asbestos as catalyst for, 1,497,817
—, —, platinum as catalyst for, 1,497,817
—, —, platinum black as catalyst for, 1,497,817
—, —, platinum electrode for, 1,365,053
—, —, potassium carbonate for, 1,201,850
—, —, potassium minerals for, 1,282,805
—, —, potato for, 1,169,322; 1,293,172; 1,315,585; 1,427,595
—, —, potato peel for, 1,169,321
—, —, process for, 1,129,542; 1,148,104; 1,168,785; 1,169,321; 1,169,322; 1,196,290; 1,197,983; 1,201,850; 1,202,317; 1,250,282; 1,271,591; 1,282,805; 1,315,525; 1,315,544; 1,327,737; 1,365,053; 1,427,595; 1,438,123; 1,470,885; 1,487,456; 1,488,278; 1,497,817; 1,499,363; 1,502,896; 1,510,526; 1,516.701
—, —, *iso*-propyl alcohol for, 1,438,123; 1,497,817
—, —, pumice for, 1,201,850
—, —, raffinose for, 1,293,172; 1,510,526
—, —, rice for, 1,315,585; 1,427,595
—, —, rye for, 1,169,322; 1,315,585
—, —, sawdust for, 1,202,318; 1,282,805; 1,327,737
—, —, selenic acid for, 1,497,817
—, —, silver as catalyst for, 1,497,817
—, —, sodium acetate and calcium oxide for, 1,385,866
—, —, sodium hydroxide for, 1,196,290; 1,201,850
—, —, starch for, 1,293,172; 1,427,595
—, —, starches acted upon by bacteria for, 1,385,888
—, —, steam for, 1,497,817
—, —, steel for, 1,497,817
—, —, steel wool as catalyst for, 1,497,817
Acetone, mfr. of, straw, waste liquor from treatment of, for, 1,487,456
—, —, sucrose for, 1,293,172; 1,510,526
—, —, sugar for, 1,169,321
—, —, sugar, cane for, 1,169,321
—, —, sulfuric acid for, 1,129,542; 1,365,053; 1,497,817
—, —, sulfurous acid for, 1,129,542
—, —, tar for, 1,327,737
—, —, tin oxides as catalyst for, 1,497,817
—, —, titanium for, 1,201,850
—, —, titanium compound for, 1,201,850
—, —, titanium oxide for, 1,201,850
—, —, vanadium as catalyst for, 1,497,817
—, —, vegetable matter for, 1,502,896
—, —, water for, 1,129,542
—, —, water, effect of on, 1,315,525
—, —, wheat for, 1,315,585
—, —, whey for, 1,470,885
—, —, wood for, 1,129,542; 1,148,104; 1,176,150; 1,176,462; 1,202,317; 1,250,282; 1,271,591; 1,282,805; 1,327,737; 1,488,278
—, —, wood pulp liquor for, 1,374,889
—, —, xylose for, 1,293,172
—, —, yeast for, 1,169,321
—, —, yeast extract for, 1,169,321
—, —, zinc for, 1,201,850
—, —, zinc acetate as catalyst for, 1,315,525
—, —, zinc compound for, 1,201,850
—, —, zinc hydroxide for, 1,196,290
—, —, zinc oxide for, 1,201,850
—, marble, imitation, made with, 1,199,798; 1,245,476
—, mash, recovery of from, 1,427,595
—, material, resinous, dissolved in, 1,305,790
—, membrane made with, 1,421,341
—, mending composition made with, 1,389,084
—, mercury(ic) chloride removed from organic compounds by, 1,455,495
—, mesityl oxide made with, 1,370,843
—, metal, coating for, made with, 1,185,074; 1,273,954
—, metal, cleaner for, contg., 1,268,237; 1,428,084
—, metal leaf made with, 1,160,979
—, methane made with, 1,211,395
—, methane, solubility of, in, 1,438,581
—, methoxybenzyl cellulose solvent, 1,454,960
—, methyl acetone contg., 1,147,852; 1,315,216; 1,500,366
—, methylbenzyl cellulose solvent, 1,454,960
—, methyl cellulose solvent, 1,454,959; 1,454,960; 1,454,961
—, methyl ethyl cellulose solvent, 1,454,959; 1,454,960
—, "methylketobutanol" made with, 1,130,499
—, methyl 3-nitrosalicylate-5-sulfonyl chloride solvent, 1,125,124
Acetone, methyl-, see Methyl acetone
—, molded article made with, 1,125,906; 1,175,791; 1,185,074; 1,241,738; 1,342,067; 1,354,154; 1,358,394; 1,370,666; 1,383,864; 1,392,849; 1,397,144; 1,398,143; 1,439,056; 1,442,420; 1,443,936; 1,448,556; 1,452,086; 1,500,303; 1,502,945; 1,514,508; 1,514,509
—, molding composition swelled with, 1,443,936
—, molybdenum filament made with, 1,208,629
—, Montan wax extracted with, 1,437,775

Acetone, morphine-diallylbarbituric acid made with, 1,255,423
—, moths, compound for protection from, made with, 1,480,289
—, mother-of-pearl, imitation, made with, 1,434,157
—, motion picture screen made with, 1,206,287
—, motor fuel contg., 1,360,872; 1,398,948; 1,399,227; 1,405,805; 1,405,806; 1,412,233; 1,420,006; 1,420,007; 1,420,622; 1,423,048; 1,423,049; 1,423,050; 1,425,136; 1,460,767
—, mucilage substitute made with, 1,158,962
—, nail polish contg., 1,388,546
—, naphtha, emulsion of, made using, 1,230,599
—, naphthalene solvent, 1,351,652; 1,354,401; 1,397,742
—, *a*-naphthol condensation product of, 1,421,722
—, *a*-naphthol condensed with, 1,414,045
—, 1-naphthol-8-sulfonamide solvent, 1,503,172
—, Nichols invisible court plaster contg., 1,204,812
—, nickel catalyst dried with, 1,431,982
—, nitrocellulose, screen in mfr. of, cleaned with, 1,367,111
—, 3-nitro-2.4-cresotic acid-5-sulfonyl chloride solvent, 1,125,124
—, nitrogen made with, 1,211,395
—, 3-nitro-salicylic acid 5-sulfonyl chloride solvent, 1,125,124
—, nitrostarch solvent, 1,388,501
—, octinebromarsonic acid (?) made with, 1,201,692
—, oil, mineral, emulsion of, made using, 1,230,599
—, —, refined using, 1,286,179
—, oils dissolved by, 1,395,998
—, oil cloth, imitation, made with, 1,140,174
—, oil cloth substitute made with, 1,175,791
—, oils purified with, 1,371,342; 1,447,898
—, oil solvent, 1,352,834
—, oleoresin paste made with, 1,324,538
—, packing made with, 1,185,074
—, paint made with, 1,146,214; 1,241,738; 1,397,103; 1,410,790
—, paint contg., pitch and, 1,355,102
—, paint, anti-fouling, made with, 1,146,214; 1,273,954; 1,456,509
—, —, undercoating composition for, made with, 1,425,510
—, paint deodorized with, 1,422,711
—, paint primer contg., 1,164,324
—, paint, remover made with, 1,130,499; 1,143,110; 1,143,111; 1,143,130; 1,143,877; 1,143,878; 1,147,848; 1,147,849; 1,147,850; 1,173,628; 1,185,641; 1,189,803; 1,189,804; 1,201,181; 1,273,307; 1,274,430; 1,328,080; 1,381,485; 1,406,175; 1,483,587; 1,499,101
—, paint remover contg. furfural and, 1,381,485
—, paper made with, 1,153,883
—, paper, coated, made with, 1,141,224; 1,185,074; 1,395,242
—, —, greaseproofing of, using, 1,411,371
—, —, oil proofing composition contg., 1,414,256
—, —, safety, made with, 1,177,787
—, —, —, adhesive, made with, 1,177,787
Acetone, paper, transparent coating for, applied with, 1,277,904
—, —, water-proofing of, made with, 1,141,224; 1,411,371
—, paraffin, emulsion of, made using, 1,230,599
—, paraffin separated from coal tar by, 1,443,983
—, paraffin separated from lignite tar by, 1,443,983
—, paraffin separated from producer tar by, 1,443,983
—, paraffin separated from shale tar by, 1,443,983
—, paraffin solvent contg., 1,172,773; 1,277,904
—, parchmentized fiber impregnated with linseed oil using, 1,267,883
—, parchment skin treated with, 1,235,723; 1,235,724
—, paste-board made with, 1,153,883
—, petroleum, sludge sulfonic acid removed from with, 1,286,179; 1,493,111
—, petroleum refined using, 1,233,700; 1,286,179
—, phenol aldehyde condensate made with, 1,168,626; Re-14,087; 1,187,231; 1,225,748; 1,225,749; 1,225,750; 1,242,592; 1,242,593; 1,342,067; 1,354,154; 1,358,394; 1,370,666; 1,414,139; 1,439,056; 1,442,420; 1,500,303; 1,500,844
—, phenol aldehyde condensate, cement, made with, 1,424,738
—, phenol aldehyde condensate binder made with, 1,261,615
—, phenol aldehyde condensate lacquer made with, 1,261,615
—, phenol aldehyde condensate soluble in, mfr. of, 1,451,843
—, phenol aldehyde condensate solvent; 1,087,422; Re-14,530; 14,531; 1,125,906; 1,133,083; 1,137,374; 1,146,214; 1,146,300; 1,150,642; 1,160,363; 1,160,364; 1,187,231; 1,188,014; 1,188,439; 1,211,227; 1,213,051; 1,213,144; 1,213,726; 1,225,748; 1,225,749; 1,225,750; 1,230,829; 1,236,460; 1,259,472; 1,259,473; 1,261,615; 1,277,904; 1,370,666; 1,377,519; 1,398,143; 1,398,144; 1,401,633; 1,404,792; 1,414,139; 1,418,891; 1,435,721; 1,439,056; 1,440,097; 1,441,133; 1,500,303
—, phenol aldehyde condensate varnish made with, 1,261,615
—, phenol condensation products made with, 1,397,144
—, phenol condensation product solvent, 1,429,267
—, phenol condensed with, artificial resin from, 1,448,556
—, phenol-furaldehyde condensate made with, 1,377,519
—, phenol ketone condensate made with, 1,448,556
—, phenolic body condensed with, resin, artificial, for, 1,448,556
—, phenyl benzoate solvent, 1,160,063
—, *p*-phenylenediamine-acetone-sodium bisulfite made with, 1,497,262
—, phenylethyl cellulose solvent, 1,454,960
—, 2-phenylquinolyl-4-methyl-*iso*-nitrosoketone, solubility of in, 1,434,306
—, phonograph record made with, 1,158,964; 1,328,371; 1,468,608; 1,468,609

Acetone, phorone made with, 1,370,843
—, phosphatide made with, 1,314,321
—, phosphoric acid, dehydrated, made with, 1,499,611
—, —, —, solvent, 1,499,611
—, photography, color, color carrier for, made with, 1,206,000; 1,221,457
—, —, —, film for, made with, 1,477,880; 1,477,881; 1,477,882; 1,477,883
—, photographic element contg., 1,290,794
—, photographic screen, colored, made with, 1,161,731
—, photomechanical transfer copying foil made with, 1,499,844
—, phthalic anhydride purified with, 1,301,388
—, piano keys made with, 1,185,074
—, picric acid and diazodinitrophenol blended by, 1,428,011
—, picture, film, photographic, treatment of for, made with, 1,256,981
—, pinacone prepared from, 1,370,366
—, pipe mending composition made with, 1,389,084
—, pituitary gland, infundibular lobe of, extract of, made with, 1,271,111
—, plaster, air permeable, made with, 1,180,775
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—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, —, —, vulcanization accelerator, 1,417,970
—, *acetaldehyde condensate of, see Acetaldehyde acetphenylenediamine*
—, vulcanization accelerator made with, 1,417,970
Acet-*m*-phenylenediamine, dyestuff made with, 1,243,170
Acet-*p*-phenylenediamine, diazotized, saponifying, 1,372,439
—, diazotizing, 1,372,439
—, dye from, 1,363,886; 1,372,439
—, dyestuff made with, 1,365,040
—, *see also p-Amino-acetanilide*
Acetphenylediaminesulfonic acid, see N^4-Acetyl-phenylenediamine-3-sulfonic acid
Acetum Plumbi, see Lead subacetate
Acetum saturni, see Lead subacetate
Acetylacetic anilide, see Acetoaceticanilide
Acetylacetic ester, see Ethyl acetoacetate
Acetyl acetone, see 2.4-Pentanedione
a-Acetyl-acetophenone, dyestuff made with, 1,216,812
Acetyl-p-amidophenyl salicylate, see Salophen
2-Acetylamino-5-amino-anisole, see 4-Amino-o-acetaniside
2-Acetylamino-5-amino-1.4-dichlorbenzene, see N^1-Acetyl-3.6-dichlor-phenylene-diamine
4-Acetylamino-1-amino-2.6-dichlorbenzene, 4-acetylamino-2.6-dichlorbenzenearsinic acid made with, 1,265,865
—, mfr. of, 1.4-diamino-2.6-dichlorbenzene for, 1,265,865
—, —, process for, 1,265,865
—, 3,5,3′-5′-tetramiño-2.2′6.6′-tetrachlor-4.4-di (methylamino)-arsenobenzene made with, 1,265,865
6-Acetylamino-3-amino-1-methoxy-benzene-4-sulfonic acid, dyestuff from, 1,408,405
6-Acetylamino-3-amino-1-methoxy-benzene-4-sulfonic acid, see also 5-Acetamido-2-amino-4-methoxy-benzenesulfonic acid
5-Acetylamino-2-amino-4-methoxy-toluene, see 4-Amino-5-methyl-o-acetaniside
5-Acetylamino-2-amino-4′-methyl-1.1′-diphenysulfone sulfonic acid, dyestuff mfr. from, 1,467,711
4-Acetylamino-2-amino-4′-methyl-5′-sulfo-1′-diphenylsulfone, dyestuff mfr. from, 1,467,711
1-Acetylamino-4-aminonaphthalene-6-sulfonic acid, dyestuff from, 1,422,866
8-Acetylamino-2-amino-1-naphthol-3.5-disulfonic acid, dyestuff reduction product, 1,127,261
4-Acetylamino-2-amino-phenol, see 3-Amino-4-hydroxy-acetanilide
5′-Acetylamino-2-amino-4-sulfo-4′-methyl-1.1′-diphenylsulfone, dyestuff mfr. from, 1,467,711
Acetylaminoanisidine, see Amino-acetaniside
4-Acetylamino-2-anisidine, see 3-Amino-p-acetaniside
(Acetylamino)-anthraquinone, mfr. of, acetic anhydride for, 1,266,896
—, —, acetyl chloride for, 1,266,896
—, —, amino-anthraquinone for, 1,266,896
—, —, sodium acetate for, 1,266,896
1-(Acetylamino)-anthraquinone, dyestuff made with, 1,266,896
2-(Acetylamino)-anthraquinone, dyestuff made with, 1,266,896
2-Acetylamino-1-chlor-anthraquinone, dyestuff made with, 1,126,475
2-Acetylamino-1-chlor-3-methyl-anthraquinone dyestuff made with, 1,126,475
Acetylamino-compounds, see Acetamino- compounds
m-Acetylamino-*p*-cresol, dyestuff from, 1,408,363
Acetyl-aminocymene, 2-acetyl-amino-1-methyl-5-nitro-4-*iso*-propyl-benzene made with, 1,314,923
—, dye from, 1,314,928
—, dye, sulfur, green, made with, 1,314,929
—, mfr. of, acetic acid for, 1,314,923
—, —, aminocymene for, 1,314,923
2-Acetylamino-cymene, nitrocymene from, 1,314,924; 1,314,925; 1,314,926
p-Acetylaminodiazobenzene, dyestuff, azo, made with, 1,323,285
2-Acetylamino-1.3-dibrom-anthraquinone, dyestuff made with, 1,126,475

4-Acetylamino-2.6-dichlorbenzenearsinic acid, 4-amino-2.6-dichlor-benzenearsinic acid made with, 1,265,865
—, mfr. of, 4-acetylamino-1-amino-2.6-dichlor-benzene for, 1,265,865
—, —, process for, 1,265,865
—, —, sodium arsenite for, 1,265,865
—, properties of, 1,265,865
—, 3.5.3′-5′-tetramino-2.2′.6.6′-tetrachlor-4.4′-di(methylamino)-arsenobenzene made with, 1,265,865
3-Acetylamino-4-ethoxycarbonylamino-phenetole, see 3-Acetamino-4-carbethoxyamino-phenetole
3-Acetylamino-4-ethoxycarbonylamino-phenol, see 3-Acetamino-4-carbethoxyamino-phenol
Acetylamino-halogen-anthraquinone, dyestuff made with, 1,126,475
5-Acetylamino-2-hydroxy-1-methyl-4-*iso*-propyl benzene, dye from, 1,314,928
1-Acetylamino-8-hydroxynaphthalene-4-sulfonic acid, dyestuff from, 1,408,297
1-Acetylamino-8-hydroxynaphthalene-4-sulfonic acid, see also 8-Acetamido-1-naphthol-5-sulfonic acid
2-Acetylamino-1-methyl-5-amino-4-*iso*-propyl-benzene, mfr. of, iron for, 1,314,923
2-Acetyl-amino-1-methyl-5-nitro-4-*iso*-propyl-benzene, 2-acetylamino-1-methyl-5-amino-4-*iso*-propyl-benzene made with, 1,314,923
—, 2.5-diamino-l-methyl-4-*iso*-propyl-benzene made with, 1,314,923
—, diazotization of, 1,314,923
—, dye from, 1,314,923; 1,314,928
—, mfr. of, acetyl-aminocymene for, 1,314,923
—, —, 2-acetyl-amino-1-methyl-5-nitro-4-*iso*-propyl-benzene for, 1,314,923
—, —, aminocymene for, 1,314,923
—, —, hydrochloric acid for, 1,314,923
—, —, nitric acid for, 1,314,923
—, —, sulfuric acid for, 1,314,923
—, see also p-Acetylamino-nitro-benzene
2-Acetylamino-4-methyl-phenol, see m-Acetylamino-p-cresol
2-Acetylamino-1-methyl-4-*iso*-propyl-benzene, dye from, 1,314,928
3-Acetylamino-1-methyl-4-*iso*-propyl-benzene, dye from, 1,314,928
3-Acetylamino-2-naphthol, dyestuff made with, 1,145,072
8-Acetylamino-1-naphthol-3.5-disulfonic acid, dyestuff made with, 1,127,261
Acetylaminonaphthol sulfonic acid, dyestuff made with, 1,127,261
7-Acetylamino-1-naphthol-3-sulfonic acid, dyestuff made with, 1,126,466
9-Acetylamino-*peri*-naphthothiopyran-3(2)-one, —9.9′-diacetylamino-$\Delta^{2.2'}$-*peri*-naphthothiopyran-3(2)-one made with, 1,498,913
—, mfr. of, 2-acetylamino-1-naphthylthioglycolic acid for, 1,498,913
—, —, chlorsulfonic acid for, 1,498,913
—, —, process for, 1,498,913
2-Acetylamino-1-naphthyl-thioglycolic acid, 9-acetylamino-*peri*-naphthothiopyran-3(2)-one made with, 1,498,913
2-Acetylamino-1-naphthyl-thioglycolic acid, 9.9′-diacetylamino-$\Delta^{2.2'}$-*peri*-naphthothiopyran-3(2)-one made with, 1,498,913
—, dyestuff made with, 1,498,913
—, mfr. of, acetic anhydride for, 1,498,913
—, —, 2-amino-l-naphthyl-thioglycolic acid for, 1,498,913
—, —, chlor-acetic acid for, 1,498,913
—, —, 2-naphthylamine hydrochloride for, 1,498,913
—, —, process for, 1,498,913
—, —, sodium hydroxide for, 1,498,913
—, —, sulfur chloride (S_2Cl_2) for, 1,498,913
p-Acetylamino-nitro-benzene, see 2-Acetylamino-1-methyl-5-nitro-4-iso-propyl-benezene
4-Acetylaminophenol, see 4-Hydroxy-acentanilide
a-(*p*-Acetylamino-phenyl)*b*-(5-hydroxy-7-sulfo-2-naphthyl)-urea, dyestuff made with, 1,483,447
p-Acetylamino-phenyl-stibnic acid, alkali salt of, mfr. of, (mono) acetyl-*p*-phenylenediamine for, 1,260,707
—, —, —, antimony trioxide for, 1,260,707
—, —, —, carbon dioxide for, 1,260,707
—, —, —, hydrochloric acid for, 1,260,707
—, —, —, methyl alcohol for, 1,260,707
—, —, —, process for, 1,260,707
—, —, —, sodium chloride for, 1,260,707
—, —, —, sodium hydroxide for, 1,260,707
—, —, —, sodium nitrite for, 1,260,707
—, —, —, sulfuric acid for, 1,260,707
—, —, properties of, 1,260,707
—, mfr. of, (mono), acetyl-*p*-phenylene diamine for, 1,260,707
—, —, antimony trioxide for, 1,260,707
—, —, carbon dioxide for, 1,260,707
—, —, hydrochloric acid for, 1,260,707
—, —, methyl alcohol for, 1,260,707
—, —, process for, 1,260,707
—, —, sodium chloride for, 1,260,707
—, —, sodium hydroxide for, 1,260,707
—, —, sodium nitrite for, 1,260,707
—, —, sulfuric acid for, 1,260,707
—, properties of, 1,260,707
—, sodium salt of, mfr. of, (mono) acetyl-*p*-phenylene diamine for, 1,260,707
—, —, —, antimony trioxide for, 1,260,707
—, —, —, carbon dioxide for, 1,260,707
—, —, —, hydrochloric acid for, 1,260,707
—, —, —, methyl alcohol for, 1,260,707
—, —, —, process for, 1,260,707
—, —, —, sodium chloride for, 1,260,707
—, —, —, sodium hydroxide for, 1,260,707
—, —, —, sodium nitrite for, 1,260,707
—, —, —, sulfuric acid for, 1,260,707
—, —, properties of, 1,260,707
Acetylaminosalol, see Salophen
Acetylanisidin, see Acetaniside
N-Acetyl-anisidine, see Acetaniside; Methacetin
N-Acetyl-o-anisidine, see o-Acetaniside
N-Acetyl-p-anisidine, see p-Acetaniside
3-Acetyl-1-o-anisyl-2.3-dihydro-2-phenyl-4.5-pyrroledione, see 3-Acetyl-4.5-diketo-1-o-methoxyphenyl-2-phenyl-pyrrolidine

Acetyl arabin, adhesive, fireproof, made with, 1,248,092
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,248,092
—, paint, fireproof, made with, 1,248,092
—, paper, fireproofing sizing for, made with, 1,248,092
—, starch, fireproof, made with, 1,248,092
—, varnish, fireproof, made with, 1,248,092
Acetylarsenophenylglycine, mfr. of, acetic acid for, 1,299,215
—, —, acetic anhydride for, 1,299,215
—, —, acetylphenylglycinearsenic acid for, 1,299,215
—, —, arsenophenylglycine for, 1,299,215
—, —, hydrochloric acid for, 1,299,215
—, —, sodium carbonate for, 1,299,215
—, —, sodium hyposulfite for, 1,299,215
Acetylated cellulose, see Cellulose acetate
Acetylated starch, see Starch acetate
Acetylation, see Acetation
4-Acetyl-benzenearsonic acid, 4-acetyl-benzenearsonic acid aminobiuret made with, 1,425,929
—, 4-acetyl-benzenearsonic aminoguanidine made with, 1,425,929
—, 4-acetyl-benzenearsonic acid carbohydrazide made with, 1,425,929
—, 4-acetyl-benzenearsonic acid hydrazone made with, 1,425,929
—, 4-acetyl-benzenearsonic acid malonylhydrazone made with, 1,425,929
—, 4-acetyl-benzenearsonic acid oxalhydrazone made with, 1,425,929
—, 4-acetyl-benzenearsonic acid phenylhydrazine made with, 1,425,929
—, 4-arsinoso-acetophenone made with, 1,425,931; Re-15,557
4-Acetyl-benzenearsonic acid aminobiuret, mfr. of, acetic acid for, 1,425,929
—, —, 4-acetyl-benzenearsonic acid for, 1,425,929
—, —, aminobiuret for, 1,425,929
—, —, process for, 1,425,929
—, —, sodium hydroxide for, 1,425,929
4-acetyl-benzenearsonic acid aminoguanidine, mfr. of, 4-acetyl-benzenearsonic acid for, 1,425,929
—, —, amino-guanidine nitrate for, 1,425,929
—, —, hydrochloric acid for, 1,425,929
—, —, process for, 1,425,929
—, —, sodium carbonate for, 1,425,929
4-Acetyl-benzenearsonic acid carbohydrazide, mfr. of, 4-acetyl-benzenearsonic acid for, 1,425,929
—, —, carbohydrazide for, 1,425,929
—, —, hydrochloric acid for, 1,425,929
—, —, process for, 1,425,929
—, —, sodium carbonate for, 1,425,929
—, —, sodium hydroxide for, 1,425,929
4-Acetyl-benzenearsonic acid hydrazone, mfr. of, 4-acetyl-benzenearsonic acid for, 1,425,929
—, —, hydrazine hydrate for, 1,425,929
—, —, hydrochloric acid for, 1,425,929
—, —, process for, 1,425,929
—, —, sodium carbonate for, 1,425,929
4-Acetyl-benzenearsonic acid malonylhydrazone, mfr. of, 4-acetyl-benzenearsonic acid for, 1,425,929
4-Acetyl-benzenearsonic acid malonylhydrazone, mfr. of, hydrochloric acid for, 1,425,929
—, —, malonyl hydrazine for, 1,425,929
—, —, process for, 1,425,929
p-Acetyl-benzenearsonic acid malonylhydrazone, reduction of, process for, 1,425,930
—, —, sodium hydroxide for, 1,425,930
—, —, sodium hyposulfite for, 1,425,930
4-Acetyl-benzenearsonic acid oxalhydrazone, mfr. of, 4-acetyl-benzenearsonic acid for, 1,425,929
—, —, oxalhydrazide for, 1,425,929
—, —, process for, 1,425,929
4-Acetyl-benzenearsonic acid phenylhydrazone, mfr. of acetic acid for, 1,425,929
—, —, 4-acetyl-benzenearsonic acid for, 1,425,929
—, —, phenyl-hydrazine for, 1,425,929
—, —, process for, 1,425,929
p-Acetyl-benzenearsonic acid semicarbazone, reduction of, ethyl acetate for, 1,425,930
—, —, phosphorus trichloride for, 1,425,930
—, —, process for, 1,425,930
—, —, sodium bisulfite for, 1,425,930
—, —, sodium carbonate for, 1,425,930
N-Acetyl-benzidine, insulation, electric, made with, 1,159,257
—, rubber substitute made with, 1,159,257; 1,159,258
—, varnish, made with, 1,159,257; 1,159,258
Acetyl-benzol, see Acetophenone
Acetylbenzoylaconine, see Aconitine
Acetylbenzoylaminoanthraquinone, anthraquinone derivatives mfr. from, 1,437,783
N-Acetyl-*N*-benzoyl-amino-anthraquinone, dyestuff made with, 1,437,783
Acetyl-benzoyl-peroxide, flour, bleaching of using, 1,483,546
Acetyl bromide, *b*-bromethyl acetate made with, 1,393,191
—, dimethylaniline action on, 1,411,683
—, mfr. of, fatty acid bromides and, 1,359,071
—, *N*-methyl-aniline made with, 1,411,683
Acetylcarbamide, see Acetyl-urea
Acetyl carbinol, see Acetol
—, *see also 1-Hydroxy-2-propanone*
Acetyl cellulose, see Cellulose acetate
Acetyl cellulose nitrate, see Cellulose acetonitrate
Acetyl chloride, acetic acid made with, 1,123,572
—, acetic anhydride from, 1,466,329
—, acetothienone from, 1,350,408
—, (acetylamino)-anthraquinone made with, 1,266,896
—, *p*-(acetyl-methyl-amino)-phenol made with, 1,434,429
—, acetylmethyl-*p*-aminophenyl acetate prepared with, 1,434,429
—, *p*-(acetyl-methyl-amino)-phenyl acetate made with, 1,434,429
—, adrenaline made with, 1,399,144
—, ammonia, action of on, 1,357,160
—, *tert*-amyl acetate made with, 1,123,572
—, *tert*-amyl alcohol, action on of, 1,123,572
—, *tert*-amyl chloride made with, 1,123,572
—, battery, dry, made with, 1,357,160
—, —, primary, made with, 1,357,160

Acetyl chloride, catalyst, *a*.-chlor-toluene made with, 1,345,373
—, —, *a.a*-dichlor-toluene made with, 1,345,373
—, —, *a.a.a*-trichlor-toluene made with, 1,345,373
—, cellulose acetate made with, 1,181,857; Re-14,338; 1,494,816; 1,494,830
—, cellulose acetate, recovery from mfr. of, 1,516,225
—, *b*-chlorethylacetate from, 1,393,191
—, 4-chlor-*m*-tolyl acetate made with, 1,498,641
—, 3.4-diacetoxy-benzaldehyde made with, 1,399,144
—, 3.4-diacetoxy-*a*-nitromethyl-benzyl alcohol made with, 1,399,144
—, dimethylaniline action of on, 1,411,683
—, dry battery contg., 1,357,160
—, ethyl 3.4.5-triacetoxy-benzoate made with, 1,222,345
—, formation of, 1,466,329
—, hydrocarbon, diolefin, purification of using, 1,196,259
—, isoprene, purification of using, 1,196,259
—, mfr. of, acetic acid for, 1,359,071
—, —, acetyl for, 1,326,040
—, —, aldehyde for, 1,326,040
—, —, alkali acetate for, 1,326,040
—, —, alkali earth acetate for, 1,326,040
—, —, chlorine for, 1,326,040; 1,359,071
—, —, chlorine and phosphorous trichloride for, 1,359,071
—, —, ester for, 1,326,040
—, —, ether for, 1,326,040
—, —, ethyl acetate for, 1,326,040
—, —, hydrocarbon for, 1,326,040
—, —, oxide, organic, for, 1,326,040
—, —, phenol for, 1,326,040
—, —, phosphorus oxychloride and, 1,359,071
—, —, phosphorous pentachloride for, 1,359,071
—, —, phosphorous trichloride for, 1,359,071
—, —, process for, 1,359,071
—, —, sulfur dioxide for, 1,326,040
—, —, sulfuryl chloride for, 1,326,040
—, —, tricresyl phosphate for, 1,326,040
—, methyl acetanilid mfr. with, 1,411,683
—, *N*-methyl-acetanilide made with, 1,411,683
—, *mono*-methyl-*p*-aminophenyl acetate prepared with, 1,434,429
—, methyl 2-thienyl ketone made with, 1,350,408
—, preparation of, 1,466,329
—, protocatechualdehyde acetylated by, 1,399,144
—, pungent compound made with, 1,329,272
—, recovery of during cellulose acetate mfr., 1,494,816; 1,494,830
—, toluene chlorinated in presence of, 1,345,373
—, vanillyl-acetyl-amide from, 1,329,272
N^1-Acetyl-6-chlor-*m*-phenylenediamine-4-sulfonic acid, dyestuff made with, 1,201,544
Acetyldehydrothiotoluidine, 1-(*p*-aminophenyl)-benzothiazole-5-carboxylic acid made with, 1,125,073
Acetyldehydrothiotoluidine sulfonic acid, 1-(*p*-aminophenyl)-4-sulfo-benzothiazol-5-carboxylic acid made with, 1,125,074
Acetyl-2.5-diaminobenzene-p-chlorbenzene-sulfone, see 2-Amino-5-acetamidophenyl-4'-chlor-phenyl sulfone
Acetyl-2.4-diaminobenzene-p-toluenesulfone, see 3-Acetamido-2-amino-phenyl-p-tolyl sulfone
Acetyl-2.5-diaminobenzene-p-toluenesulfone dye mfr. from, 1,359,969
2.5-Acetyldiamino-1-methyl-4-*iso*-propyl-benzene, dye from, 1,314,928
4-Acetyl-2.4-diaminophenol, see 4-Acetamino-2-amino-phenol
—, *see also 3-Amino-4-hydroxy-acetanilide*
N-Acetyl-dicyclohexylamine, see N.N-Dicyclohexyl-acetamide
N^1-Acetyl-3.6-dichlor-*p*-phenylenediamine, dyestuff made with, 1,150,656
Acetyldiethylsulfide, preparation of, 1,422,869
3-Acetyl-2.3-dihydro-1-(2.3-dimethyl-5-phenyl-pyrazolyl)-2-phenyl-4.5-pyrroledione, see 3-Acetyl-4.5-diketo-(2'.3'-dimethyl-5-keto-1-phenylpyrazolinyl)-2-phenyl-pyrrolidine
3-Acetyl-2.3-dihydro-1-phenyl-2-piperonyl-4.5-pyrroledione, see 3-Acetyl-4.5-diketo-1-phenyl-2-piperonyl-pyrrolidine
3-Acetyl-2.3-dihydro-2-phenyl-1-quinolyl-4.5-pyrroledione, see 3-Acetyl-4.5-diketo-2-phenyl-1-quinolyl-pyrrolidine
3-Acetyl-2.3-dihydro-2-phenyl-1-o-tolyl-4.5-pyrroledione, see 3-Acetyl-4.5-diketo-2-phenyl-1-o-tolyl-pyrrolidine
3-Acetyl-4.5-diketo-2-*p*-dimethylamino-phenyl-1-*p*-tolyl-pyrrolidine, mfr. of, *p*-dimethylamino-benzaldehyde for, 1,148,637
—, —, ethyl *a*-keto-levulinate for, 1,148,637
—, —, process for, 1,148,637
—, —, *p*-toluidine for, 1,148,637
—, properties of, 1,148,637
3-Acetyl-4.5-diketo(2'.3'-dimethyl-5-keto-1-phenyl-pyrazolinyl)-2-phenyl-pyrrolidine, mfr. of, amino-dimethyl-phenyl-pyrazolone for, 1,148,637
—, —, benzaldehyde for, 1,148,637
—, —, benzene for, 1,148,637
—, —, ethyl *a*-keto-levulinate for, 1,148,637
—, —, process for, 1,148,637
3-Acetyl-4.5-diketo-2-furyl-1-phenylpyrrolidine, mfr. of, alcohol for, 1,148,637
—, —, aniline for, 1,148,637
—, —, benzene for, 1,148,637
—, —, ethyl *a*-keto-levulinate for, 1,148,637
—, —, process for, 1,148,637
—, properties of, 1,148,637
3-Acetyl-4.5-diketo-1-*o*-methoxyphenyl-2-phenyl-pyrrolidine, mfr. of, anisidine for, 1,148,637
—, —, benzaldehyde for, 1,148,637
—, —, ethyl *a*-keto-levulinate for, 1,148,637
—, —, process for, 1,148,637
—, properties of, 1,148,637
3-Acetyl-4.5-diketo-1-phenyl-2-piperonyl-pyrrolidine, mfr. of, aniline for, 1,148,637
—, —, benzene for, 1,148,637
—, —, ethyl *a*-keto-levulinate for, 1,148,637
—, —, piperonal for, 1,148,637
—, —, process for, 1,148,637
—, properties of, 1,148,637

3-Acetyl-4.5-diketo-2-phenyl-1-quinolyl-pyrrolidine, mfr. of, 8-amino-quinoline for, 1,148,637
—, —, benzaldehyde for, 1,148,637
—, —, benzene for, 1,148,637
—, mfr. of, ethyl *a*-keto-levulinate for, 1,148,637
—, —, process for, 1,148,637
—, properties of, 1,148,637
3-Acetyl-4.5-diketo-2-phenyl-1-*o*-tolyl-pyrrolidine, mfr. of, benzaldehyde for, 1,148,637
—, mfr. of, ether for, 1,148,637
—, —, ethyl *a*-keto-levulinic acid for, 1,148,637
—, —, process for, 1,148,637
—, —, *o*-toluidine for, 1,148,637
—, properties of, 1,148,637
3-Acetyl-2-p-dimethylamino-phenyl-2.3-dihydro-1-p-tolyl-4.5-pyrroledione, see 3-Acetyl-4.5-diketo-2-p-dimethylamino-phenyl-1-p-tolyl-pyrrolidine
a-Acetyldinitronaphthol, see Dinitro-naphthyl acetate
Acetyldinitrophenol, see Dinitro-phenyl acetate
Acetyldisulphide, accelerator in rubber vulcanization, 1,440,962
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—, —, —, cement for, 1,140,124
—, —, —, cement, hydraulic, for, 1,140,124
—, —, —, charcoal for, 1,140,124
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—, —, —, process for, 1,140,124
—, —, —, silicious earth for, 1,140,124
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—, —, acetone for, 1,422,182
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—, acetaldehyde from, catalyst for, regeneration of, 1,293,863
—, —, iron(ic) sulfate employed in preparation of, 1,430,551
—, acetaldehyde-ammonia formed from, 1,408,826
—, acetic acid made with, 1,128,780; 1,159,376; 1,174,250; 1,421,743; 1,431,301; 1,471,058; 1,485,706
—, acetic anhydride made with, 1,425,500
—, acetone from, 1,421,743
—, acetone aldehyde from 1,421,743
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—, acetylene soot made from, 1,123,843
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—, alkali cyanide made with, 1,163,498; 1,483,411
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—, alkali earth cyanide made with, 1,483,411
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—, —, removal from of, 1,318,936
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—, —, chlorine and alkaline hydroxides for, 1,425,669
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—, —, iron(ic) chloride as catalyst for, 1,418,882; 1,516,350
—, —, metal chloride for, 1,418,882; 1,516,350
—, —, process for, 1,141,266; 1,418,882; 1,516,350
—, —, steam for, 1,418,882; 1,516,350
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—, —, —, carbon dioxide for, 1,418,882
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—, flotation process with, 1,261,303
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—, —, ammonia mfr. by-product, 1,183,885
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—, —, calcium cyanamide for, 1,154,640
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—, —, hydrocarbon for, cracking process for, 1,313,009
—, —, oil for, cracking process for, 1,313,009
—, —, paraffin for, cracking process for, 1,313,009
—, —, petroleum for, cracking process for, 1,313,009
—, —, pitch for, cracking process for, 1,313,009
—, —, resin for, cracking process for, 1,313,009
—, —, tar for, cracking process for, 1,313,009
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—, —, barium oxide as catalyst for, 1,144,800; 1,144,801
—, —, calcium carbide for, 1,265,573; 1,265,574; 1,499,750
—, —, calcium carbonate for, 1,144,800; 1,144,801; 1,499,750
—, —, calcium hydroxide residue from, plaster board mfr. with, 1,456,924
—, —, calcium oxide as catalyst for, 1,124,364; 1,144,800; 1,144,801
—, —, carbide for, 1,255,765
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—, —, carbon black as by-product of, 1,315,540
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—, —, coal, bituminous, for, 1,499,750
—, —, coal dust for, 1,129,505; 1,129,721
—, —, coke for, 1,129,505; 1,129,721
—, —, electrothermic cell for, 1,315,540
—, —, hydrocarbon for, 1,124,364; 1,144,800; 1,144,801; 1,315,540
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—, —, limestone for, 1,499,750
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—, —, metal oxide as catalyst for, 1,124,364; 1,144,800; 1,144,801
—, —, microcline for, 1,129,505; 1,129,721
—, —, nitrogen for, 1,129,505; 1,129,721
—, —, orthoclase for, 1,129,505; 1,129,721
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—, —, silica for, 1,144,800; 1,144,801
—, —, sodium silicate for, 1,144,800; 1,144,801
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—, —, —, charcoal for, 1,181,116
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N^1-Acetyl-N^1-ethyl-4-*m*-tolylenediamine, dyestuff made with, 1,483,415
N^1-Acetyl-N^1-ethyl-2-*p*-tolylenediamine, dyestuff made with, 1,483,415
N^5-Acetyl-N^5-ethyl-4-*m*-tolylenediamine, dyestuff made with, 1,483,415
Acetylformic acid, see Pyruvic acid
3-Acetyl-2-furyl-2.3-dihydro-1-phenyl-4.5-pyrroledione, see 3-Acetyl-4.5-diketo-2-furyl-1-phenyl-pyrrolidine
Acetyl-A-acid, see 8-Acetamino-1-naphthol-3.6-disulfonic acid
Acetylhydrocellulose, see Hydrocellulose acetate
4-Acetyl-3-hydroxy-benzenearsonic acid, 4-acetyl-3-hydroxy-benzenearsonic semicarbazone made with, 1,425,929
4-Acetyl-3-hydroxy-benzenearsonic acid semicarbazone, mfr. of, 4-acetyl-3-hydroxy-benzenearsonic acid for, 1,425,929
—, —, hydrochloric acid for, 1,425,929
—, —, process for, 1,425,929
—, —, semicarbazide hydrochloride for, 1,425,929
—, —, sodium hydroxide for, 1,425,929
3-Acetyl-4-hydroxy-5-nitro-benzenearsonic acid, 3-acetyl-4-hydroxy-5-nitrobenzenearsonic acid semicarbazone made with, 1,425,929
3-Acetyl-4-hydroxy-5-nitro-benzenearsonic acid, 3-arsinose-6-hydroxy-5-nitro-acetophenone made with, 1,425,931; Re-15,557
3-Acetyl-4-hydroxy-5-nitro-benzenearsonic acid phenylhydrazone, reduction of, ammonium chloride for, 1,425,930
—, —, potassium iodide for, 1,425,930
—, —, process for, 1,425,930
—, —, sodium hydroxide for, 1,425,930
—, —, sulfur dioxide for, 1,425,930
—, —, sulfuric acid for, 1,425,930
3-Acetyl-4-hydroxy-5-nitro-benzenearsonic acid semicarbazone, mfr. of, 3-acetyl-4-hydroxy-5-nitro-benzenearsonic acid for, 1,425,929
—, —, process for, 1,425,929
—, —, semicarbazide for, 1,425,929
—, —, sodium carbonate for, 1,425,929
Acetylidene dichloride, see 1.1-Dichlor-ethylene
—, *see also as-Dichlor-ethylene*
unsym.-Acetylidene tetrachloride, see 1.1.1.2-Tetrachlorethane
Acetyl isoborneol, see Isobornyl acetate
N^1-Acetyl-2-methoxy-p-phenylenediamine, see 4-Amino-o-acetaniside
p-(Acetyl-methyl-amino)-phenol, mfr. of, acetyl chloride for, 1,434,429
—, —, *p*-(acetyl-methyl-amino)-phenyl acetate for, 1,434,429
—, —, benzene for, 1,434,429
—, —, *p*-dimethylamino-phenol for, 1,434,429
—, —, *p*-dimethylamino-phenyl acetate for, 1,434,429
—, —, process for, 1,434,429
—, —, sulfuric acid for, 1,434,429
p-(Acetyl-methyl-amino)-phenyl acetate, *p*-(acetyl-methyl-amino)-phenol made with, 1,434,429
—, mfr. of, acetyl chloride for, 1,434,429
—, —, benzene for, 1,434,429
—, —, *p*-dimethylamino-phenol for, 1,434,429
—, —, *p*-dimethyl-phenyl acetate for, 1,434,429
—, —, process for, 1,434,429
Acetylmethyl *p*-aminophenyl acetate, *mono*-methyl *p*-aminophenol sulfate from, 1,434,429
—, preparation of, 1,434,429
Acetyl methyl anilide, see Methyl-acetanilide
Acetyl-methyl-aniline, celluloid substitute made with, 1,420,028
—, cellulose acetate plasticizer, 1,420,028
—, *see also Manol*
Acetyl mono-methyl-aniline, see also N-Methyl-acetanilide
Acetyl monomethylaniline, see Methylacetanilide
Acetyl mono-methyl aryl amines, mfr. of, 1,411,683
Acetyl-1.2-naphthylenediamine-p-toluenesulfone-6-sulfonic acid, dye mfr. from, 1,359,969
Acetyl-1.4-naphthylenediamine-6-sulfonic acid, dyestuff made with, 1,150,656
Acetyl-1.4-naphthylenediamine-p-toluenesulfone-6-sulfonic acid, see 4-Acetamino-1-amino-2-(p-tolylsulfonyl)-naphthalene-6-sulfonic acid
Acetylnitramine, dye from, 1,314,928
Acetyl nitrocellulose, see Cellulose acetonitrate
Acetyl oxide, see Acetic anhydride

Acetyloxystearic acid, esters of, cellulose nitrate softeners, 1,357,876
Acetyl peroxide, 1,333,701
—, compounds contg., electrical treatment of, 1,333,700
—, dyeing process using, 1,333,700
—, stabilizing of, apparatus for, 1,333,700
—, —, electrical process for, 1,333,700
—, —, process for, 1,333,700
Acetyl *p*-phenetidine, ethyl cellulose plasticizer, 1,460,097
—, film contg., 1,460,097
N-Acetyl-phenetidine, see Phenacetin
Acetyl *p*-phenylenediamine, dyestuff made with, 1,126,489
—, *p*-acetylamino-phenyl-stibnic acid made with, 1,260,707
(mono)Acetyl-*p*-phenylene diamine, *p*-acetylamino-phenyl-stibnic acid, alkali salt of, made with, 1,260,707
—, —, sodium salt of, made with, 1,260,707
N^4-Acetyl-phenylenediamine-3-sulfonic acid, dyestuff made with, 1,193,829
N^1-Acetyl-*m*-phenylenediamine-4-sulfonic acid, dyestuff made with, 1,201,544
—, dyestuff reduction product, 1,201,544
N-Acetyl-p-phenylenediamine, see p-Aminoacetanilide
Acetylphenylglycinearsenic acid, acetylarsenophenylglycine from, 1,299,215
a-Acetyl-*b*-phenyl-hydrazine, flotation process using, 1,364,306
a-Acetyl-propionic acid, see Levulinic acid
b-Acetylpropionic acid, see Levulinic acid
b-Acetylpropyl-diethylamine, mfr. of, ethyl methyl ketone for, 1,126,549
—, —, formaldehyde for, 1,126,549
—, —, potash for, 1,126,549
—, —, process for, 1,126,549
—, —, tetraethyldiaminomethane for, 1,126,549
—, properties of, 1,126,549
Acetylpyroacemic acid, see a-Keto-levulinic acid
Acetylpyroacemic acid ester, see Ethyl a-keto-levulinate
Acetylpyruvic acid, see a-Keto-levulinic acid
Acetylpyruvic acid ester, see Ethyl-a-keto-levulinate
Acetyl red, phenol-aldehyde condensate made with, 1,310,087; 1,310,088; 1,345,694; 1,345,695; 1,374,526
Acetylricinoleic acid, esters of, cellulose nitrate softeners, 1,357,876
Acetyl-saccharose, see Saccharose acetate
Acetyl-salicylic acid, acetyl-salicylic acid, product contg., made with, 1,486,373
—, alkali, composition of and, 1,486,002
—, alkali acetylsalicylate made with, 1,129,953; 1,217,862
—, alkali carbonate, composition of and, 1,486,002
—, alkali earth acetyl salicylate made with, 1,217,862
—, alkali earth carbonate, composition of and, 1,486,002
—, alkali salts of, mfr. of, process for, 1,129,953
—, barium acetyl-salicylate made with, 1,217,862
Acetyl-salicylic acid, *benzyl ester of, see Benzyl acetylsalicylate*
—, bismuth acetyl-salicylate made with, 1,217,862
—, calcium acetyl-salicylate made with, 1,217,862; 1,225,407; 1,431,863
—, calcium carbonate, composition of and, 1,486,002
—, calcium hydroxide, composition of and, 1,486,002
—, calcium oxide, composition of and, 1,486,002
—, *calcium salt of, see Calcium acetylsalicylate*
—, carbonate, composition of and, 1,486,002
—, cerium acetyl-salicylate made with, 1,217,862
—, didymium acetyl-salicylate made with, 1,217,862
—, lithium acetylsalicylate made with 1,129,953; 1,217,862
—, lithium salts of, mfr. of, process for, 1,129,953
—, magnesium acetyl-salicylate made with, 1,217,862
—, magnesium carbonate, composition of and, 1,486,002
—, magnesium oxide, composition of and, 1,486,002
—, medicinal preparation contg., 1,404,673
—, *methyl derivative, see Methyl acetyl-salicylate*
—, potassium acetyl-salicylate made with, 1,217,862
—, potassium salt of, 1,404,673
—, product contg., mfr. of, acetylene-salicylic acid for, 1,486,373
—, —, —, alkali earth salts for, 1,486,373
—, —, —, alkali salts for, 1,486,373
—, —, —, bicarbonate for, 1,486,373
—, —, —, borate for, 1,486,373
—, —, —, carbonate for, 1,486,373
—, —, —, chloride for, 1,486,373
—, —, —, gelatin for, 1,486,373
—, —, —, halide for, 1,486,373
—, —, —, magnesium salts for, 1,486,373
—, —, —, mercury salts for, 1,486,373
—, —, —, nitrate for, 1,486,373
—, —, —, nitrite for, 1,486,373
—, —, —, oxide for, 1,486,373
—, —, —, phosphate for, 1,486,373
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—, —, —, rare earth salts for, 1,486,373
—, —, —, silicate for, 1,486,373
—, —, —, silver salts for, 1,486,373
—, —, —, sodium bicarbonate for, 1,486,373
—, —, —, sodium chloride for, 1,486,373
—, —, —, starch for, 1,486,373
—, —, —, sugar for, 1,486,373
—, —, —, sulfate for, 1,486,373
—, —, —, sulfite for, 1,486,373
—, —, —, talcum for, 1,486,373
—, —, —, zinc salts for, 1,486,373
—, purification of, amylene dichloride for, 1,321,307
—, —, butylene dichloride for, 1,321, 307
—, —, chloroform for, 1,321,307
—, —, ethylene dichloride for, 1,321,307
—, —, olefin dichloride for, 1,321,307
—, —, propylene dichloride for, 1,321,307
—, salts of, mfr. of, process for, 1,217,862

Acetyl-salicylic acid, salts of, opiate contg., 1,461,831
—, silver acetyl-salicylate made with, 1,217,862
—, sodium acetyl-salicylate made with, 1,217,862
—, sodium bicarbonate, composition of and, 1,486,002
—, sodium salt of, 1,404,673
—, soluble, preparation contg., 1,404,673
—, solvent for, amylene dichloride as, 1,321,307
—, —, butylene dichloride as, 1,321,307
—, —, chloroform as, 1,321,307
—, —, ethylene dichloride as, 1,321,307
—, —, olefin dichloride as, 1,321,307
—, —, propylene dichloride as, 1,321,307
—, strontium acetyl-salicylate made with, 1,217,862
—, therapeutic product made with, 1,486,373
—, zinc acetyl-salicylate made with, 1,217,862
—, *see also Aspirin*
o-Acetyl-salicylate acid, see Aspirin
5-Acetyl-salicylic acid, 3′-carboxy-4′-hydroxy-atophan made with, 1,181,485
Acetyl silk, see Silk, artificial, cellulose acetate
Acetyl starch, see Starch acetate
Acetyl sulfide, removal from acetic anhydride, 1,467,074
Acetyl sulfuric acid, catalyst in cellulose acetate mfr., 1,445,382
—, *see also Sulfacetic acid*
N^4-Acetyl-4-*m*-tolylenediamine-6-sulfonic acid, dyestuff made with, 1,201,544
Acetyltrinitrophenol, see Trinitro-phenyl acetate
Acetyl-urea, adhesive made with, 1,355,834
—, airplane dope made with, 1,355,834
—, celluloid substitute made with, 1,355,834
—, coating made with, 1,355,834
—, dental filling made with, 1,355,834
—, urea-formaldehyde condensate made with, 1,355,834
—, formaldehyde condensation product of, 1,355,834
—, horn substitute made with, 1,355,834
—, lacquer made with, 1,355,834
—, rubber substitute made with, 1,355,834
Acetysal, see Acetylsalicylic acid
Achornea Cordata, see Alchornea cordifolia
A-acid, see 1.7 Dihydroxynapthalene-3.6-disulfonic acid
Acid, absorption apparatus for, 1,247,280
—, acetaldehyde made with, 1,129,542
—, acetic acid made with, 1,129,542
—, acetic series, molded article made with, 1,512,024
—, —, insulation, electric, made with, 1,512,024
—, acetone made with, 1,129.542
—, adhesive made with, 1,257,307
—, air, removal from of, 1,521,348
—, aliphatic, alkyl esters made with, 1,478,498
—, —, esters made with, 1,478,498
—, alkali aluminum fluoride made with, 1,517,686
—, alkyl esters made with, 1,478,498
—, alloy resistant to, formula for, 1,350,166
—, alloy resisting, 1,384,056; 1,385,223; 1,422,096
—, —, *see also Alloy, acid proof; Alloy, acid-resistant*
Acid, aluminum, coating of, treatment of surface before using, 1,144,000
—, —, insulation, electric, made for using, 1,137,986
—, —, acid resistant, made with, 1,130,196
—, —, alkali resistant, made with, 1,130,196
—, aluminum alloy, coating of, treatment of surface before using, 1,144,000
—, —, insulation, electric, made for using, 1,137,986
—, aluminum potassium fluoride made with, 1,517,686
—, aluminum sodium fluoride made with, 1,517,686
—, aluminum treated with, 1,130,196
—, alunite treated with, 1,338,428
—, *N*-(4-′-Amino-1′-naphthyl)-*p*-toluenesulfonamide made with, 1,442,818
—, 4-amino-1-(*p*-tolylsulfonamido)-naphthalene-2-sulfonic acid made with, 1,442,818
—, 4-amino-1-(*p*-tolylsulfonamido)-naphthalene-6-sulfonic acid made with, 1,442,818
—, 4-animo-1-(*p*-tolylsulfonamido)-naphthalene-7-sulfonic acid made with, 1,442,818
—, 4-amino-1-(*p*-tolylsulfonamide)-naphthalene-8-sulfonic acid made with, 1,442,818
—, ammonium salts made with, 1,511,912
—, apparatus resistant to, quartz glass for constructing, 1,454,945
—, aromatic, alkyl esters made with, 1,478,498
—, —, esters made with, 1,478,498
—, arsenic sulfide made with, 1,502,285
—, barium chloride made with, 1,129,029
—, barium permanganate made with, 1,453,562
—, barrel lining contg., 1,323,528
—, battery, dry, depolarizer for, regeneration of using, 1,192,061
—, —, —, electrolyte for, regeneration of using, 1,192,061
—, —, storage, made using, 1,155,046; 1,155,047
—, beer, sterilization of using, 1,140,717
—, beverage, sterilization of using, 1,140,717
—, *N.N′*-bis(4-amino-1-naphthyl-*n*-benzenedisulfonamide made with, 1,442,818
—, *N.N′*-bis(4-amino-1-naphthyl)-2.6-naphthalenedisulfonamide made with, 1,442,818
—, *N.N′*-bis(4-amino-2-sulfo-naphthyl)-*m*-benzenedisulfonamide made with, 1,442,818
—, *N.N′*-bis(4-amino-6-sulfo-1-naphthyl)-*m*-benzenedisulfonamide made with, 1,442,818
—, *N.N′*-bis(4-amino-7-sulfo-1-naphthyl)-*m*-benzenesulfonamide made with, 1,442,818
—, *N.N′*-bis(4-amino-8-sulfo-1-naphthyl)-*m*-benzenedisulfonamide made with, 1,442,818
—, blood coagulated by, 1,441,570
—, boiler scale formation prevented using, 1,405,783
—, British gum made with, 1,159,591; 1,516,512
—, bromine made with, 1,141,922
—, calcium sulfate hydrated with, 1,442,406
—, carbon, salts of, producing, 1,466,626; 1,466,628
—, carbon tetrachloride freezing point affected by, 1,292,743; 1,292,744
—, castings, defective repaired using, 1,246.444
—, castings resistant to, mfr. of, 1,432,923
—, catalyst, fat, edible, made with, 1,505,560

Acid, catalyst, Iard, artificial, made with, 1,505,560
—, —, margarine made with, 1,505,560
—, catalyst poison for citronellal mfr., 1,210,681
—, catalyst poison for citronellic acid mfr., 1,210,681
—, catalyst poison for citronellol mfr., 1,210,681
—, catalyst poison for 3.7-dimethyl-caprylaldehyde mfr., 1,210,681
—, catalyst poison for, 3.7-dimethylcaprylic acid mfr., 1,210,681
—, catalyst poison for 3.7-dimethyl-1-octanol mfr., 1,210,681
—, catalyst poison for 3.7-dimethyl-3-octanol mfr., 1,210,681
—, catalyst poison for 3.7-dimethyl-Δ^6-3-octanol mfr., 1,210,681
—, cattle food made with, 1,259,568; 1,496,833
—, celluloid substitute made with, 1,280,862
—, cellulose made with, 1,509,273
—, cellulose, hydrochloric acid solution of precipitant using, 1,141,510
—, —, silk, artificial, made with, 1,217,028
—, —, treatment preparatory to bleaching of using, 1,133,769
—, cellulose acetate, action on of, 1,286,172
—, cellulose fibers made with, 1,509,273
—, cellulose nitrate made with, 1,509,273
—, cellulose xanthate made with, 1,251,237
—, cement, acid-proof, made with, 1,245,608
—, —, waterproof, made with, 1,245,608
—, chalcocite, flotation of using, 1,286,922
—, chloride, organic, mfr. of ether for, 1,326,040
—, clay, deflocculated, precipitated with, 1,456,111
—, clay reflocculated by, 1,419,952
—, clupadonic series, insulation, electric, made with, 1,512,024
—, —, molded article made with, 1,512,024
—, —, plastic made with, 1,512,024
—, coating composition made with, 1,355,985
—, concentrating, 1,415,443
—, concentration of, apparatus for, 1,195,075; 1,264,182; 1,264,509; 1,286,080; 1,286,188; 1,473,122
—, —, process for, 1,195,075
—, copper smelter, treatment of using, 1,517,689
—, copper sulfide ore, flotation of using, 1,286,922
—, cotton treated with, 1,402,040
—, cream, sterilization of using, 1,140,717
—, cylic series, insulation, electric, made with, 1,512,024
—, —, molded article made with, 1,512,024
—, —, plastic made with, 1,512,024
—, decoration made with, 1,128,071
—, detinning using, 1,359,494
—, dextrin made with, 1,159,591
—, diabetes, compound for treatment of, made with, 1,469,994; 1,470,024
—, dicarboxylic, esters of, paint remover made with, 1,130,499
—, —, —, varnish remover made with, 1,130,499
—, dust, gas, removal from of, using, 1,184,006
—, —, sulfur dioxide, removal from of, using, 1,184,006
Acid, dye, vegetable, applied to fabric using, 1,271,067
—, dyeing process using, 1,333,700
—, dyestuff, waste liquor contg., treatment of, using, 1,242,676
—, electrolyte contg., 1,273,432
—, enamel, opaque, made with, 1,123,760
—, —, white, made with, 1,123,760
—, esters made with, 1,478,498
—, etching, electrolytic for, contg., 1,273,432
—, ethyl alcohol made with, 1,129,542
—, ethyl ether, impurity in of, 1,507,337
—, fat, refining of using, 1,147,392
—, fatty, alkali silicate, waterproof cement product of, made with, 1,283,546
—, —, calcium hydroxide, water-proof cement product of, made with, 1,283,546
—, —, calcium oxide, water-proof cement product of, made with, 1,283,546
—, —, cement, natural, water-proof cement product of, made with, 1,283,546
—, —, —, hydraulic, water-proof cement product of, made with, 1,283,546
—, —, —, Portland, water-proof cement product of, made with, 1,283,546
—, —, —, water-proof cement product of, made with, 1,283,546
—, —, gypsum, water-proof cement product of, made with, 1,283,546
—, —, hydrogenating, catalyst for, preparing, 1,427,037
—, —, lime, water-proof cement product of, made with, 1,283,546
—, —, magnesium oxychloride, water-proof cement product of, made with, 1,283,546
—, —, plaster, water-proof cement product made with, 1,283,546
—, —, *see also Fatty acids*
—, fiber, animal, treatment of using, 1,197,495
—, —, vegetable, treatment preparatory to bleaching of using, 1,133,769
—, filament, artificial, made with, 1,217,028
—, —, —, viscose, made with, 1,251,237
—, —, —, —, precipitated with, 1,260,508; 1,488,281
—, film made with, 1,141,510
—, film, viscose, precipitation of using, 1,488,281
—, fire extinguisher using, 1,340,601; 1,403,596
—, flax, treatment preparatory to bleaching of using, 1,133,769
—, flotation process using, 1,125,897; 1,519,396
—, fodder made with, 1,128,154
—, food product made with, 1,200,011
—, "foots" oil, recovery of from, using, 1,247,782
—, fruit juice, sterilization of using, 1,140,717
—, fruit pulp, sterilization of using, 1,140,717
—, 2-furaldehyde made with, 1,381,485
—, gas, dust, removal of from, using, 1,184,006
—, gelatin made with, 1,271,960
—, gold ore, flotation of using, 1,519,396
—, *d*-glucose made with, 1,508,569
—, glucose mfr. from starch with, 1,361,238; 1,361,239
—, glue, vegetable, made with, 1,257,307
—, glycerol made with, 1,477,113
—, grape juice, sterilization of using, 1,140,717

Acid, graphite purified using, 1,145,024
—, gum, artificial, made with, 1,225,748; 1,225,749; 1,225,750
—, hair, artificial, made with, 1,217,028
—, hirsute, treatment of using, 1,197,495
—, horn substitute made with, 1,143,893
—, hydrocarbon, removal of from waste liquors, 1,428,618
—, hydrocupreine derivatives soluble in, 1,458,670
—, hydrofluoric acid made with, 1,150,415
—, hydrogen made with, 1,276,487
—, hydrogen dioxide made with, 1,128,966
—, hydroxy of lactic acid series, distiller's slops for producing, 1,344,850; 1,344,851
—, indigoid dye made using, 1,133,031
—, inorganic, cellulose treated with, cellulose ether made with, 1,188,376
—, —, —, ethyl cellulose made with, 1,188,376
—, —, —, methyl cellulose made with, 1,188,376
—, —, mold prevented from growing with, 1,318,174
—, insulation, electric, made with, 1,470,990
—, iron alloy resistant to the action of, 1,493,191
—, iron apparatus resistant to, lead for filling double walls of, 1,384,023
—, *iron resistant to, see Iron, acid-resisting*
—, iron treated using, 1,373,573
—, ivory nut substitute made with, 1,143,893
—, ivory substitute made with, 1,143,893
—, label made with, 1,128,071
—, lead made with, 1,480,110
—, lead smelter slag, treatment of using, 1,517,689
—, lime in calcium cyanamide neutralized with, 1,419,157
—, linoleic series, insulation, electric, made with, 1,512,024
—, —, molded article made with, 1,512,024
—, —, plastic made with, 1,512,024
—, liquid, detection in of impurity of, apparatus for, 1,320,036
—, leather, artificial, made with, 1,140,174; 1,355,985
—, —, —, viscose, made with, 1,251,237
—, lubricant, used, treatment of with, 1,281,354
—, mfr. of, apparatus for, 1,361,416; 1,472,119
—, —, berry for, 1,472,119
—, —, grain for, 1,472,119
—, —, nut for, 1,472,119
—, —, pine wood for, 1,472,119
—, —, plant for, 1,472,119
—, —, process for, 1,472,119
—, —, seed for, 1,472,119
—, —, shrub for, 1,472,119
—, —, wood for, 1,472,119
—, material, resistant to, mfr. of, 1,422,720
—, meat extract like preparation made with, 1,442,339; 1,442,340; 1,442,341
—, medicinal capsule contg. alkali and, 1,356,544
—, mesityl oxide made with, 1,370,843
—, methyl alcohol made with, 1,129,542
—, milk, sterilization of using, 1,140,717
—, milk dried using, 1,491,166
—, mineral, aluminum hydroxide, mineral contg., finely divided, made using, 1,501,865
Acid, mineral, aluminum hydroxide, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, aluminum oxide, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, calcium carbonate, mineral contg., finely divided, made using, 1,501,865
—, —, —, ocher contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, carbonate, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, cement, Portland, hydrated, made with, 1,325,213
—, —, colloidal solution made using, 1,189,696
—, —, enamel removed from metal with, 1,272,917
—, —, fluoride, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, fodder made with, 1,190,953
—, —, hydrogen dioxide made with, 1,138,519; 1,138,520
—, —, hydrosilicate, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, hydroxide, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, iron hydroxide, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, iron oxide, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, magnesium carbonate, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865

Acid, mineral, magnesium carbonate, rock flour contg., finely divided, made using, 1,501,865
—, —, mineral, aluminum hydroxide contg., finely divided, made using, 1,501,865
—, —, mineral, aluminum oxide contg., finely divided, made using, 1,501,865
—, —, —, calcium carbonate contg., finely divided, made using, 1,501,865
—, —, —, carbonate contg., finely divided, made using, 1,501,865
—, —, —, fluoride contg., finely divided, made using, 1,501,865
—, —, —, hydrosilicate contg., finely divided, made using, 1,501,865
—, —, —, hydroxide contg., finely divided, made using, 1,501,865
—, —, —, iron hydroxide contg., finely divided, made using, 1,501,865
—, —, —, iron oxide contg., finely divided, made using, 1,501,865
—, —, —, magnesium carbonate contg., finely divided, made using, 1,501,865
—, —, —, oxide contg., finely divided, made using, 1,501,865
—, —, —, phosphate contg., finely divided, made using, 1,501,865
—, —, —, silicate contg., finely divided, made using, 1,501,865
—, —, ocher, calcium carbonate contg., finely divided, made using, 1,501,865
—, —, oxide, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, paper made with, 1,500,500
—, —, phosphate, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, pigment, aluminum hydroxide contg., finely divided, made using, 1,501,865
—, —, —, aluminum oxide contg., finely divided, made using, 1,501,865
—, —, —, calcium carbonate contg., finely divided, made using, 1,501,865
—, —, —, carbonate contg., finely divided, made using, 1,501,865
—, —, —, fluoride contg., finely divided, made using, 1,501,865
—, —, —, hydrosilicate contg., finely divided, made using, 1,501,865
—, —, —, hydroxide contg., finely divided, made using, 1,501,865
—, —, —, iron hydroxide contg., finely divided, made using, 1,501,865
—, —, —, iron oxide contg., finely divided, made using, 1,501,865
—, —, —, magnesium carbonate contg., finely divided, made using, 1,501,865
—, —, —, oxide contg., finely divided, made using, 1,501,865
Acid, mineral, pigment, phosphate contg., finely divided, made using, 1,501,865
—, —, —, silicate contg., finely divided, made using, 1,501,865
—, —, rock flour, aluminum hydroxide contg., finely divided, made using, 1,501,865
—, —, —, aluminum oxide contg., finely divided, made using, 1,501,865
—, —, —, calcium carbonate contg., finely divided, made using, 1,501,865
—, —, rock flour, carbonate contg., finely divided, made using, 1,501,865
—, —, —, fluoride contg., finely divided, made using, 1,501,865
—, —, —, hydrosilicate contg., finely divided, made using, 1,501,865
—, —, —, hydroxide contg., finely divided, made using, 1,501,865
—, —, —, iron hydroxide contg., finely divided, made using, 1,501,865
—, —, —, iron oxide contg., finely divided, made using, 1,501,865
—, —, —, magnesium carbonate contg., finely divided, made using, 1,501,865
—, —, —, oxide contg., finely divided, made using, 1,501,865
—, —, —, phosphate contg., finely divided, made using, 1,501,865
—, —, —, silicate contg., finely divided, made using, 1,501,865
—, —, shoe, box toe, made with, 1,380,865
—, —, silicate, mineral contg., finely divided, made using, 1,501,865
—, —, —, pigment contg., finely divided, made using, 1,501,865
—, —, —, rock flour contg., finely divided, made using, 1,501,865
—, —, thread, cellulose, brilliant, made with, 1,184,323
—, —, —, cotton, brilliant, made with, 1,184,323
—, —, —, hemp, brilliant, made, with, 1,184,323
—, —, —, jute, brilliant, made with, 1,184,323
—, —, —, linen, brilliant, made with, 1,184,323
—, —, —, ramie, brilliant, made with 1,184,323
—, —, water softener made with, 1,325,213
—, molded article made with, 1,441,570
—, 1-naphthol-8-sulfonamide made with, 1,503,172
—, nickel dissolved by, 1,346,175
—, nitric acid made with, 1,130,104
—, oil, "foots," recovery from of, using, 1,247,782
—, —, lubricating, used, treatment of using, 1,281,354
—, —, refining of using, 1,147,392
—, oil treated with, 1,310,164
—, oil cloth, imitation, made with, 1,140,174; 1,355,985
—, oleic series, insulation, electric, made with, 1,512,024
—, —, molded article made with, 1,512,024
—, —, plastic made with, 1,512,024
—, open chain series, insulation, electric, made with, 1,512,024
—, —, molded article made with, 1,512,024
—, —, plastic made with, 1,512,024

Acid, ores floated by vapors of, 1,365,281
—, organic, amber substitute made with, 1,475,446
—, —, anhydrous, mfr. of, 1,381,782
—, —, bacteria, *Bacillus-Bulgaricus*, preparation made with, 1,179,625
—, —, borneol made with, 1,478,690
—, —, bread made with, 1,131,698
—, —, calcium (poly)sulfide stabilized by, 1,254,908; Re-14,890
—, —, camphol made with, 1,478,690
—, —, carbon tetrachloride, freezing point of mixture of and, 1,243,149; 1,270,393; 1,270,394; 1,270,395; 1,270,396; 1,270,397
—, —, catalyst, hydrogenation, 1,211,704
—, —, celluloid substitute made with, 1,280,862
—, —, cellulose, derivatives of, made with, 1,234,720
—, —, —, trioxymethylene, compound of and, made with, 1,234,720
—, —, cellulose treated with, methyl cellulose made with, 1,188,376
—, —, —, cellulose ether made with, 1,188,376
—, —, —, ethyl cellulose made with, 1,188,376
—, —, cellulose butyrate made with, 1,474,574
—, —, cellulose film, water resistant, made with, 1,234,720
—, —, cellulose pellicle, water resistant, made with, 1,234,720
—, —, cellulose sulfite liquor contg., 1,495,074
—, —, corn, shelled, mold prevented in with, 1,311,709
—, —, cotton fabric, silk like finish for, made with, 1,132,001
—, —, cyanides and sulfonates for mfr. of, 1,367,898
—, —, cement, Portland, hydrated, made with, 1,325,213
—, —, dentifrice made with, 1,492,715
—, —, enamel, opaque, made with, 1,150,772
—, —, —, white, made with, 1,150,772
—, —, esters made with, 1,517,968
—, —, fat made with, 1,193,951
—, —, fire-extinguisher made with, carbon tetrachloride and, 1,243,149; 1,270,393; 1,270,394; 1,270,395; 1,270,396; 1,270,397
—, —, food, cattle, mold prevented in with, 1,311,709
—, —, —, mold prevented in with, 1,311,709
—, —, —, pigeon, mold prevented in with, 1,311,709
—, —, —, poultry, mold prevented in with, 1,311,709
—, —, food product made with, 1,507,338
—, —, fungi, prevention of with, 1,311,709
—, —, glycerol made with, 1,193,951
—, —, glycerol solvent contg., 1,193,951
—, —, horse hair, artificial, water resistant, made with, 1,234,720
—, —, hydrogenation, catalyst for, 1,211,704
—, —, hydroxy, aluminum acetate, therapeutic compound of, made with, 1,132,709
—, —, iron, rust removal from using, 1,470,225
—, —, isoborneol made with, 1,478,690
—, —, isocamphol made with, 1,478,690
—, —, jelly made with, 1,507,338
Acid, organic, lactic acid made with, 1,193,951
—, —, mfr. of, alcohols, secondary, for, 1,497,817
—, —, —, air for, 1,497,817; 1,517,968
—, —, —, asphalt for, 1,517,968
—, —, —, Blau gas for, 1,497,817
—, —, —, brass as catalyst for, 1,517,968
—, —, —, carbon dioxide for, 1,497,817
—, —, —, chromium as catalyst for, 1,497,817
—, —, —, chromium oxide as catalyst for, 1,517,968
—, —, —, cobalt as catalyst for, 1,497,817
—, —, —, coke for, 1,497,817
—, —, —, copper as catalyst for, 1,497,817; 1,517,968
—, —, —, copper oxide as catalyst for, 1,517,968
—, —, —, fat for, 1,517,968
—, —, —, gasolene, cracked, for, 1,497,817
—, —, —, gilsonite for, 1,517,968
—, —, —, gravel for, 1,497,817
—, —, —, grease for, 1,517,968
—, —, —, hydrocarbon, olefin, for, 1,497,817; 1,517,968
—, —, —, iron for, 1,497,817
—, —, —, iron as catalyst for, 1,497,817; 1,517,968
—, —, —, iron vanadate as catalyst for, 1,517,968
—, —, —, kerosene for, 1,517,968
—, —, —, Monel metal as catalyst for, 1,497,817
—, —, —, molybdenum compound as catalyst for, 1,517,968
—, —, —, nichrome as catalyst for, 1,497,817
—, —, —, nickel as catalyst for, 1,497,817
—, —, —, nitrogen for, 1,497,817
—, —, —, nitrogen tetroxide for, 1,337,253
—, —, —, oil gas for, 1,517,968
—, —, —, oxygen for, 1,497,817; 1,517,968
—, —, —, petroleum for, 1,517,968
—, —, —, petroleum, cracked, for, 1,497,817
—, —, —, petroleum still gas for, 1,497,817
—, —, —, petroleum vapor for, 1,497,817
—, —, —, phosphoric acid for, 1,497,817; 1,517,968
—, —, —, Pinch gas for, 1,497,817
—, —, —, platinized asbestos as catalyst for, 1,497,817
—, —, —, platinum as catalyst for, 1,497,817
—, —, —, platinum black as catalyst for, 1,497,817
—, —, —, process for, 1,497,817; 1,517,968
—, —, —, selenic acid for, 1,497,817
—, —, —, silver as catalyst for, 1,497,817
—, —, —, silver chromate as catalyst for, 1,517,968
—, —, —, steam for, 1,497,817; 1,517,968
—, —, —, steel for, 1,497,817
—, —, —, steel wool as catalyst for, 1,497,817
—, —, —, sulfuric acid for, 1,497,817; 1,517,968
—, —, —, tin oxides as catalyst for, 1,497,817
—, —, —, vanadium as catalyst for, 1,497,817
—, —, —, vanadium oxide as catalyst for, 1,517,968
—, —, molasses, feed contg., mold prevented in with, 1,311,709
—, —, mold prevention of with, 1,311,709
—, —, mold prevented from growing with, 1,318,174

Acid, organic, mold article, cellulose, water resistant, made with, 1,234,720
—, —, paper made with, 1,500,500
—, —, pectin product made with, 1,507,338
—, —, phenol aldehyde condensate made with, 1,475,446
—, —, plastic contg., 1,317,721
—, —, purification of, process for, 1,288,293
—, —, radium compound made with, 1,154,230
—, —, rubber, spongy, made wth, 1,156,184
—, —, silk, artificial, cellulose nitrate, water resistant, made with, 1,234,720
—, —, —, —, cuprammonium, water resistant, made with, 1,234,720
—, —, —, —, viscose, water resistant, made with, 1,234,720
—, —, —, —, water resistant, made with, 1,234,720
—, —, steel, rust, removal from using, 1,470,225
—, —, succinic acid made with, 1,193,951
—, —, sulfuryl chloride made with, 1,364,738
—, —, textile, artificial, water resistant, made with, 1,234,720
—, —, thread, cellulose, brilliant, made with, 1,184,323
—, —, —, cotton, brilliant, made with, 1,184,323
—, —, —, hemp, brilliant, made with, 1,184,323
—, —, —, jute, brilliant, made with, 1,184,323
—, —, —, linen, brilliant, made with, 1,184,323
—, —, —, ramie, brilliant, made with, 1,184,323
—, —, trioxymethylene, cellulose, compound of and, made with, 1,234,720
—, —, varnish made with, 1,280,861; 1,436,820
—, —, volatile, concentration of, butyric acid for, 1,477,076
—, —, —, —, carbon tetrachloride for, 1,477,076
—, —, —, —, chlorbenzene for, 1,477,076
—, —, —, —, esters for, 1,477,076
—, —, —, —, ethers for, 1,477,076
—, —, —, —, hydrocarbon, acetylene, for, 1,477,076
—, —, —, —, —, —, halogen derivatives of, for, 1,477,076
—, —, —, —, —, —, nitrogen derivatives of, for, 1,477,076
—, —, —, —, —, olefin, for, 1,477,076
—, —, —, —, —, —, halogen derivatives of, for, 1,477,076
—, —, —, —, —, —, nitrogen derivatives of, for, 1,477,076
—, —, —, —, —, paraffin, for, 1,477,076
—, —, —, —, —, —, halogen derivatives of, for, 1,477,076
—, —, —, —, —, —, nitrogen derivatives of, for, 1,477,076
—, —, —, —, petroleum distillate for, 1,477,076
—, —, —, —, process for, 1,477,076
—, —, —, —, xylene for, 1,477,076
—, —, —, recovery from distillery waste, 1,426,457
—, —, water softener made with, 1,325,213
—, —, wheat flour, bleached using, 1,131,698
—, organic mater coagulated with, 1,426,596
—, ortho, esters of, cement contg., 1,450,467
—, paint made with, 1,127,831
—, paint proof against action of, 1,393,220
—, paper made with, 1,509,273
Acid, paper mill waste water, compound for purification of made with, 1,133,446
—, paper pulp bleached using, 1,468,693
—, pectin product made with, 1,497,884
—, peroxidase made with, 1,324,752
—, petroleum treated with, 1,310,164
—, phenol aldehyde condensate made with, 1,126,926; 1,143,714; 1,146,045; 1,225,748; 1,225,749; 1,225,750; 1,345,694; 1,345,695
—, phorone made with, 1,370,843
—, plastic made with, 1,143,893
—, potassium bitartrate made with, 1,135,216
—, potassium permanganate made with, 1,281,085
—, *iso*-propyl alcohol made with, 1,518,339
—, *iso*-propyl alcohol, deodorizing of using, 1,518,339
—, pump for, construction of, 1,282,145
—, radium chloride made with, 1,129,029
—, receptacles, outlet for, 1,366,170
—, *receptacles resistant to, see Battery boxes*
—, recovery of, apparatus for, 1,314,765
—, *resinous, see Resin acids*
—, ribbon, viscose, precipitation of, using, 1,488,281
—, rubber, reclaiming of using, 1,124,920; 1,321,501
—, silk, artificial, made with, 1,141,510
—, —, —, viscose, precipitation of using, 1,488,281
—, —, weighting of, using, 1,231,436
—, silver ore, flotation of using, 1,519,396
—, slaughter house waste water, compound for purification of made with, 1,133,446
—, *sludge, see Sludge sulfonic acid*
—, soap made with, 1,419,952
—, sodium permanganate made with, 1,281,085
—, spent, trinitrotoluene separated from, process for, 1,271,578
—, sponge, artificial, made with, 1,142,619
—, starch, modified, made with, 1,159,591; 1,516,512
—, —, soluble, made with, 1,159,591; 1,516,512
—, —, thin boiled, made with, 1,159,591
—, stearoptene made with, 1,274,793
—, steel treated using, 1,373,573
—, sugars made with, 1,259,568
—, sulfide ore, flotation of using, 1,286,922
—, sulfur dioxide, dust, removal of from, using, 1,184,006
—, *tanks proof to, see Tanks, acid-proof*
—, tannery waste water, compound for, purification of made with, 1,133,446
—, tin recovered using, 1,359,494
—, tin sulfide made with, 1,502,285
—, torpedoes propelled by sodium bicarbonate and, 1,419,267
—, treating, 1,421,688
—, tropinonene made with, 1,420,900
—, turpentine barrel lining contg., 1,323,528
—, $C_nH_{2n-4}O_2$, varnish base, mfr. from, 1,422,861
—, viscose made with, 1,251,237; 1,355,985
—, viscose, precipitation of using, 1,143,569; 1,488,281
—, viscose treated with, 1,140,174
—, water, aerated, sterilization of using, 1,140,717

Acid, water, compound for purification of made with, 1,133,446
—, —, detection in of impurity of, apparatus for, 1,320,036
—, —, waste, compound for purification of made with, 1,133,446
—, well cleaned using, 1,498,045
—, wood, preservation of, using, 1,242,168
—, wool, treatment of using, 1,197,495
—, wool washing waste water, compound for purification of made with, 1,133,446
—, yeast extract made with, 1,200,011
—, zeolite, artificial, made with, 1,140,262
—, *see also Liquids Corrosive*
—, *see under specific name of the acid*
Acid amid, phenol-aldehyde condensate made with, 1,255,500
—, phonograph record made with, 1,255,500
Acid ammonium purpurate, see Murexid
Acid anhydride, acid-proofing made with, 1,241,738
—, alcohol dehydrated with, 1,466,435; Re-15,783
—, alkali-proofing made with, 1,241,738
—, amber substitute made with, 1,241,738
—, butyl ether dehydrated with, 1,466,435; Re-15,783
—, celluloid substitute made with, 1,241,738
—, cellulose acetate (acetone soluble), made with, 1,241,995
—, cellulose ester substitute made with, 1,241,738
—, coating made with, 1,241,738
—, diethyl ketone dehydrated with, 1,466,435; Re-15,783
—, ethyl ether dehydrated with, 1,466,435; Re-15,783
—, ethyl methyl ketone dehydrated with, 1,466,435; Re-15,783
—, ethyl propyl ether dehydrated with, 1,466,435; Re-15,783
—, fabric, impregnation of using, 1,241,738
—, film made with, 1,241,738
—, fireproofing made with, 1,241,738
—, glycerol made with, 1,477,113
—, horn substitute made with, 1,241,738
—, hydrocarbon dehydrated with, 1,466,435; Re-15,783
—, insulation, electric, made with, 1,241,738
—, ketone dehydrated with, 1,466,435; Re-15,783
—, lacquer made with, 1,241,738
—, liquids, organic, dehydrated with, 1,466,435; Re-15,783
—, mfr. of, process for, 1,136,630
—, methyl ethyl ketone dehydrated with, 1,466,435
—, molded article made with, 1,241,738
—, organic, mfr. of, nitrogen tetroxide for, 1,337,253
—, paint made with, 1,241,738
—, paper, impregnation of using, 1,241,738
—, phenol aldehyde condensate made with, 1,146,388; 1,255,500
—, phonograph record made with, 1,255,500
—, plastic made with, 1,241,738
—, propyl ether dehydrated with, 1,466,435; Re-15,783
—, record, phonograph, made with, 1,146,388
Acid anhydride, resin, artificial, made with, 1,241,738
—, silk, treatment of using, 1,500,255
—, stone, artificial, impregnation of using, 1,241,738
—, thread, artificial, made with, 1,241,738
—, waterproofing made with, 1,241,738
—, wood, impregnation of using, 1,241,738
—, wool, treatment of using, 1,500,255
Acid black 10 B.N., alkali-proofing, 1,349,265
Acid blue black, leather, kid, dyed using, 1,383,092
—, silk dyed using, 1,383,092
—, wool dyed using, 1,383,092
Acid brown O 1530, alkali-proofing, 1,349,265
Acid cake, fuel made from, 1,487,240
—, production of, sludge sulfonic acid for, 1,487,240
—, treatment of, apparatus for, 1,487,240
—, —, process for, 1,487,240
—, *see also Sludge sulfonic acid*
Acid cellulose, benzyl cellulose made with, 1,483,738
—, Ekstroem's benzyl cellulose made with, 1,483,738
—, —, cellulose ethers made with, 1,483,738
—, —, ethyl cellulose made with, 1,483,738
—, —, methyl cellulose made with, 1,483,738
—, ethyl cellulose made with, 1,188,376; 1,483,738; 1,505,043
—, ethyl cellulose, composition of and, 1,217,028
—, cellulose ether made with, 1,188,376; 1,483,738; 1,505,043
—, cellulose ether, composition of and, 1,217,028
—, methyl cellulose made with, 1,188,376; 1,483,738
—, *see also Cellulose*
Acid chloride, dyestuff made with, 1,266,896
—, organic, mfr. of, acetyl for, 1,326,040
—, —, —, ester for, 1,326,040
—, —, —, ethyl acetate for, 1,326,040
—, —, —, hydrocarbon for, 1,326,040
—, —, —, oxide, organic, for, 1,326,040
—, —, —, chlorine for, 1,326,040
—, —, —, phenol for, 1,326,040
—, —, —, process for, 1,326,040
—, —, —, sulfur dioxide for, 1,326,040
—, —, —, tricresyl phosphate for, 1,326,040
—, silk, treatment of using, 1,500,255
—, wool, treatment of using, 1,500,255
Acid chromotrope, see 1.8-Dihydroxy-naphthalene-3.6-disulfonic acid
Acid of Cleve, see Cleve's acid
Acid coke, see Coke acid
—, *see also Sludge sulfonic acid coke*
Acid containers, outlet for, construction of, 1,249,728
Acid dyestuff, see Dyestuff, acid
Acide carbolique, see Phenol
Acide Phenique, see Phenol
Acid ethyl sulfuric, see Ethyl sulfuric acid
Acid extract, see Olefins, acid extracts of
Acid fumes, protecting apparatus against, white wash for, 1,388,188
Acid green, cotton, dyeing of, using, 1,213,045
—, film, color-photography, made with, 1,390,252
—, lake from, 1,378,418

Acid H, see 8-Amino-1-naphthol-3.6-disulfonic acid
Acid liquor, producing, olefins and sulfuric acid for, 1,365,044
—, purifying, animal skins for, 1,457,484
Acid magenta, cotton, dyeing of using, 1,213,045
Acid manufacture, art of, 1,390,410
Acid oil, cracking of, process for, 1,322,762; 1,322,878
—, cresyl phosphate made with, 1,425,393
—, gasolene from, aluminum chloride for, 1,322,762; 1,322,878
—, —, process for, 1,322,762; 1,322,878
—, kerosene from, aluminum chloride for, 1,322,762; 1,322,878
—, —, process for, 1,322,762; 1,322,878
—, naphtha from, aluminum chloride for, 1,322,762; 1,322,878
—, phenyl phosphate made with, 1,425,393
—, production of, sludge sulfonic acid for, 1,487,240
—, tolyl phosphates made with, 1,425,393
—, xylyl phosphates made with, 1,425,393
—, *see also Sludge sulfonic acid*
"Acid oil" as fuel, 1,290,345
Acidol, see Betaine hydrochloride
Acid olenic, see Oleic acid, crude
Acidosis, diabetic, combating, fats with odd number of carbon atoms for, 1,455,254
—, mfr. of, apparatus for, 1,376,612; 1,383,911; 1,383,912
—, *see also Calcium (acid) phosphate, Calcium phosphate acid, Phosphate (acid)*
Acid pitch, hydrogenation of, cobalt carbide as catalyst for, 1,226,620; Re-14,429
—, —, cobalt, colloidal, as catalyst for, 1,226,620; Re-14,429
—, —, cobalt oxide as catalyst for, 1,226,620; Re-14,429
—, —, cobalt silicide as catalyst for, 1,226,620; Re-14,429
—, —, iron, colloidal, as catalyst for, 1,226,620; Re-14,429
—, —, iron carbide as catalyst for, 1,226,620; Re-14,429
—, —, iron oxide as catalyst for, 1,226,620; Re-14,429
—, —, iron silicide as catalyst for, 1,226,620; Re-14,429
—, —, nickel, colloidal, as catalyst for, 1,226,620; Re-14,429
—, —, nickel carbide as catalyst for, 1,226,620; Re-14,429
—, —, nickel oxide as catalyst for, 1,226,620; Re-14,429
—, —, nickel silicide as catalyst for, 1,226,620; Re-14,429
—, —, process for, 1,226,620; Re-14,429
Acid Pontianak, see Pontianac, acid
Acid potassium fluoride, see Potassium fluoride, acid
Acid-proof alloy, composition of, 1,509,624
—, mfr. of, process for, 1,314,417
Acid-proofing, mfr. of, acetone for, 1,241,738
—, —, acid anhydride for, 1,241,738
—, —, alcohol, 1,234,381; 1,241,738
—, —, benzene for, 1,234,381
Acid-proofing, mfr. of, benzoyl peroxide for, 1,241,738
—, —, camphor for, 1,234,381; 1,241,738
—, —, camphor substitute for, 1,241,738
—, —, carbon tetrachloride for, 1,234,381
—, —, castor oil for, 1,241,738
—, —, cellulose acetate for, 1,241,738
—, —, chlor-benzene for, 1,241,738
—, —, chlorine for, 1,234,381
—, —, cork for, 1,241,738
—, —, s-dichlor-ethane for, 1,241,738
—, —, dichlor-ethylene for, 1,241,738
—, —, epichlorhydrin for, 1,241,738
—, —, esters for, 1,241,738
—, —, ethers for, 1,241,738
—, —, ethyl acetate for, 1,241,738
—, —, ethylidene diacetate for, 1,241,738
—, —, fibrous material for, 1,241,738
—, —, "heptachlor-caoutchouc" for, 1,234,381
—, —, ketones for, 1,241,738
—, —, lamp, mercury vapor, for, 1,241,738
—, —, metal oxide for, 1,241,738
—, —, oils for, 1,241,738
—, —, oxygen for, 1,241,738
—, —, ozonide for, 1,241,738
—, —, perborate for, 1,241,738
—, —, percarbonate for, 1,241,738
—, —, peroxide (organic) for, 1,241,738
—, —, petroleum ether for, 1,234,381
—, —, process for, 1,234,381; 1,241,738
—, —, rubber for, 1,234,381
—, —, rubber, plantation, for, 1,234,381
—, —, silver oxide for, 1,241,738
—, —, steam for, 1,234,381
—, —, s-tetrachlor-ethane for, 1,241,738
—, —, toluene for, 1,234,381
—, —, trichlor ethane for, 1,241,738
—, —, ultra-violet ray for, 1,241,738
—, —, vinyl acetate for, 1,241,738
—, —, vinyl bromide for, 1,241,738
—, —, vinyl chlor acetate for, 1,241,738
—, —, vinyl chloride for, 1,241,738
—, —, vinyl esters for, 1,241,738
—, —, vinyl halide for, 1,241,738
—, —, wood for, 1,241,738
—, —, xylene for, 1,234,381
—, —, zinc oxide for 1,241,738
Acid-proof lining, mfr. of, cement for, 1,311,051
—, —, dust from pyrites furnace for, 1,311,051
—, —, process for, 1,311,051
—, —, sawdust for, 1,311,051
—, —, whiting for, 1,311,051
Acid-proofing lining for concrete tank, see Concrete tank, acid-proof lining for
Acid-proof material, mfr. of, asphalt for, 1,513,133
—, —, benzene for, 1,513,133
—, —, bituminous material for, 1,513,133
—, —, carbon black for, 1,508,144
—, —, charcoal for, 1,508,144
—, —, coal, anthracite, for, 1,508,144
—, —, coal tar pitch for, 1,513,133
—, —, coke for, 1,508,144
—, —, gravel for, 1,508,144
—, —, hydrochloric acid for, 1,513,133
—, —, metal scrap for, 1,508,144
—, —, naphtha for, 1,513,133

Acid-proof material, mfr. of, process for, 1,508,144; 1,513,133
—, —, rock for, 1,508,144
—, —, sulfur for, 1,508,144
—, —, tar for, 1,513,133
Acid-proof tank, see Tank, acid-proof
Acid-proof vessel, mfr. of, metal coated stone for, 1,258,282
Acid receiver, quartz glass, 1,454,945
Acid receptacle, construction of, 1,249,728
—, outlet for, construction of, 1,249,728
Acid red, dye contg., 1,367,930
—, dye soap made with, 1,283,519
Acid regenerator, 1,402,194
Acid resins, see Sludge sulfonic acid
Acid resin sludge, see Sludge sulfonic acid
Acid resisting material, formula, rosin 4, petroleum jelly 2, paraffin 2, sulfur 2, 1,425,935
Acid salt, fat, refining of using, 1,147,392
—, oil, refining of using, 1,147,392
Acid sludge, see Sludge sulfonic acid
—, *see also Sulfuric acid*
Acid sodium arsenate, see Sodium arsenate Na_2HAsO_4)
Acid sodium sulfate, see Sodium bisulfate
Acid-spar, hydrofluoric acid from, 1,439,960
Acid-spray catcher, construction of, 1,135,471
Acid sulfite liquor see Calcium bisulfite
—, *see also Cellulose sulfite liquor*
Acid-tank, construction of, 1,315,241
Acid tar, benzene made with, 1,373,391
—, flotation process using, 1,438,435
—, gasolene made with, 1,373,391
—, pyridine made from, 1,490,736
—, toluene made with, 1,373,391
—, *see also Sludge sulfonic acid; Sludge sulfonic acid tar*
Acid test paper, mfr. of, card-board for, 1,238,123
—, —, celluloid for, 1,238,123
—, —, malachite green for, 1,238,123
—, —, paper for, 1,238,123
—, —, process for, 1,238,123
Acid "trichlor-acetic mentholis," dental anesthetic contg., 1,420,634
Acidum carbolicum, see Phenol
Acidum cinnamylicum, see Cinnamic acid
Acidum citricum, see Citric acid
Acidum malicum, see Malic acid
Acidum phenicum, see Phenol
Acidum Phenylcinchonicum, see Atophan
Acid valves, see Valves, acid
Acid violet, dye contg., 1,367,930
—, (2-B), cotton, dyeing of, using, 1,213,045
—, (4R), dyeing mixture contg., 1,457,581
—, lake from, 1,378,418
Acid waste, see Spent acid
Acid wringer, see Centrifugal
Acid yellow (A T), surgical suture made using, 1,382,715
— (H.M.), alkali-proofing, 1,349,265
— (*S.*), *see Naphthol yellow .*
a-Acidylaminocinnamic esters, preparation of, 1,437,802
Acidyl cellulose, see Cellulose acetate
Acid zein, insulation, electric, made with, 1,245,981
—, lacquer made with, 1,245,981
Acne, treating, see Bath salts
Aconitine, mfr. of, 1,447,400
Aconitum, alkaloids from, preparation of, 1,447,400
Aconitine, extraction of, 1,447,400
Acoria, plaster board made with, 1,474,657
Acorn starch, binder contg., 1,318,106
—, calcimine, binder contg., 1,318,106
—, glue contg., 1,318,106
—, oil, emulsifier for contg., 1,318,106
—, size contg., 1,318,106
—, soap made with, 1,342,783
Acoustic apparatus, diaphragms for, mfr. of, mica and cellulose acetate varnish for, 1,435,843
Acoustic diaphragm, see Diaphragm, sound reproducing
Acoustical diaphragm, see Diaphragm, sound reproducing
Accra flake, rubber, reclaimed, made with, 1,135,236
—, tire puncture-healing composition contg., 1,215,861
Acridine, boiling point of, 1,456,848
—, flotation process using, 1,438,435
—, iron, pickling of using, 1,460,395
—, iron alloy, pickling of using, 1,460,395
—, iron pickling bath contg., 1,460,395
—, melting point of, 1,456,848
—, nitrated, rubber accelerator, 1,291,828
—, purifying, 1,456,848
—, separating from antharcene press cake, 1,456,848
—, steel, pickling of using, 1,460,395
—, subliming, 1,456,848
—, tar constituent, 1,339,310
—, vulcanization accelerator, 1,291,828
Acridine compounds, disinfectant made with, 1,227,624; 1,228,926
Acridine derivatives, dyeing with, 1,427,431
Acridine dyestuffs, 1,455,486; 1,455,487; 1,455,488
—, bactericide made with, 1,259,517
—, mfr. of, 1,455,486; 1,455,487
—, mercury derivatives of, 1,259,517
Acridine hydrochloride, film, ray, cathode, made with, 1,315,324
—, —, X-ray, made with, 1,315,324
—, plate, ray, cathode, made with, 1,315,324
—, —, X-ray, made with, 1,315,324
Acridine orange, film, photographic, dyeing of using, 1,214,940
—, photographic image, dyeing of using, 1,214,940
—, *see also 2.8-Bis(dimethylamino)-acridine*
Acridine orange NO, film, photographic, color, made with, 1,145,968
—, photography, color, process for, using, 1,191,941
—, *see also Dyestuff*
Acridine orange sulfate, halogenating, 1,418,852
Acridine picrate, rubber accelerator, 1,291,828
Acridine red, photograph, colored made with, 1,256,675
—, —, motion, colored, made with, 1,256,675
—, photographic print, colored, made with, 1,166,123
—, —, motion, colored, made with, 1,166,123

Acridine red B, film, photographic, dyeing of using, 1,214,940
—, photographic image, dyeing of, using, 1,214,940
Acridine series, arsenical compounds of, preparing, 1,408,974
—, arsinic acid of, preparing, 1,408,974
—, compounds of, producing, 1,427,431
Acridine scarlet, film, motion picture, colored, made with, 1,207,527
Acridine yellow, mfr. of, 1,455,486
—, *see also 2.8-Diamino-3.7-dimethyl-acridine; 3.6-Diamino-2.7-dimethyl-acridine*
Acridine yellow base, see 3.6-Diamino-acridine
Acridinium compounds, mfr. of, 1,427,432
—, pigment mfr. from, 1,427,432
—, tannic acid derivatives of, 1,429,432
Acriflavin, antiseptic properties of, 1,382,715
—, anti-toxin preservative of using, 1,475,233
—, bacterial extract preservative of using, 1,476,233
—, bacterin preservative of using, 1,476,233
—, biological product preservative of using, 1,476,233
—, cultural filtrate, preservative of using, 1,476,233
—, serum preservative of using, 1,476,,233
—, surgical suture made using, 1,382,715
—, vaccine preservative of using, 1,476,233
—, virus preservative of using, 1,476,233
Acroid, see Acaroid
Acroides gum, see Acaroides gum
Acrolein, absorbing, 1,329,076
—, acrylic acid from, 1,472,115
—, coffee aroma due to, 1,367,715
—, copper precipitation of with, 1,472,115
—, diacryl formation from, 1,436,047
—, formation when blowing oils, 1,329,076
—, plastic made with, 1,468,331
—, preparing, 1,436,047
—, production of, fat, animal, for, 1,472,115
—, stabilizing, phenols for, 1,436,047
Acrospires, acetone made with, 1,169,321
—, ethyl alcohol made with, 1,169,321
Acrylic acid, copper, precipitation of with, 1,472,115
—, esters of, varnish made with, 1,436,820
—, polymerized, varnish made with, 1,436,820
—, production of, acrolein for, 1,472,115
Acrylic acid series, rubber substitute made with, 1,471,059
Acrylic aldehyde, see Acrolein
Actinium, ball made with, 1,260,788
—, golf ball made with, 1,260,788
Actinium compounds, radio-active solutions made using, 1,236,213
Actinolite, paint contg., 1,317,225
—, *see also Asbestos*
Activated carbon, see Carbon, activated
Activator, see Catalyst
Active carbon, see Carbon, absorptive
Active charcoal, see Charcoal
Actol, see Silver lactate
"Acto", therapeutic product made with, 1,513,298
"Acto" oil, see Oil, mineral, "Acto"
Acyl amino-aryl-pyrazolone, dyestuff made with, 1,123,263
Acyloxybenzoic acid, esters of, cellulose esters plasticizers, 1,408,095
Adaline, hypnotic, 1,493,182
Adamite, abrasive wheel made with, 1,133,260
—, steel alloy, 1,391,215
—, *see also Abrasive; Muscovite*
Addressing machine stencil, see Stencil
Adherent, fusible, mfr. of, shellac for, 1,374,492
—, *see also Adhesive*
Adhesive, acetic acid in, 1,267,699
—, aircraft beam made with, 1,400,078
—, aircraft strut made with, 1,400,078
—, airplane wireless generator casings made with, 1,344,765; 1,433,730
—, alcohol in, 1,467,356
—, alum in, 1,463,403
—, ammonium hydroxide in, 1,267,699
—, bag coated with, 1,258,104
—, bag, paper, made with, 1,363,196
—, —, water-proof, made with, 1,363,196
—, baggage contg., 1,464,242
—, benzene in, 1,467,356
—, boxes contg., 1,464,242
—, box board made with, 1,154,138
—, brick, surfacing of using, 1,518,398
—, briquet, mfr., formula, dextrin, glucose, salt, potassium chloride, sodium silicate, sulfuric acid, 1,396,603
—, bronze foil made using, 1,152,060
—, cactus for mfr. of, 1,363,830
—, cactus liquid in, 1,463,403
—, canvas board substitute made with, 1,369,151
—, casein in, 1,267,699
—, casein, waterproofing, copper salts for, 1,456,842
—, cassava starch in, 1,267,699
—, castor oil in, 1,292,333
—, cellulose ether, composition of and, 1,188,376
—, cellulose sulfite liquor used in, 1,292,069
—, cement, bag for, made with, 1,363,196
—, —, glass-to-metal contg., 1,132,721
—, clay in, 1,377,739
—, closet-seat made with, 1,315,488
—, colored foil made using, 1,152,060
—, compo-board made with, 1,125,973
—, composite material made with, 1,369,151
—, concrete, surfacing of using, 1,516,398
—, conductor, electric, armored, made with, 1,162,614
—, container, paper, made with, 1,203,303
—, copper ammonium sulfate in, 1,267,699
—, corn starch in, 1,463,403
—, covering material made with, 1,516,571
—, decoration made with, 1,128,071
—, desk tops contg., 1,464,242
—, dextrin as, 1,283,839; 1,284,120
—, dextrin in, 1,292,333
—, diamond held by, 1,291,769
—, diaphragm, phonograph, made with, 1,246,552
—, —, sound reproducing, made with, 1,246,552
—, dish, paper, made with, 1,196,803
—, doll made with, 1,199,251; 1,221,157
—, dolls head made with, 1,369,151
—, embroidery filler form made with, 1,221,440
—, ether in, 1,467,356
—, ethyl starch, compounds of and, 1,350,820
—, fabric, coating of with, process for, 1,170,699

Adhesive, fabric, decorating of using, 1,211,455
—, felt, decorating of using, 1,211,455
—, fiber tube made with, 1,514,708
—, film of, mfr. of, 1,300,250
—, film, photographic, made with, 1,500,393
—, fireproof, mfr. of, acacia for, 1,248,092
—, —, —, acetyl arabin for, 1,248,092
—, —, —, alum for, 1,248,092
—, —, —, aluminum ammonium sulfate for, 1,248,092
—, —, —, aluminum salt for, 1,248,092
—, —, —, aluminum sodium sulfate for, 1,248,092
—, —, —, aluminum sulfate for, 1,248,092
—, —, —, ammonium bicarbonate for, 1,248,092
—, —, —, ammonium borate for, 1,248,092
—, —, —, ammonium chloride for, 1,248,092
—, —, —, ammonium hydroxide for, 1,248,092
—, —, —, ammonium phosphate for, 1,248,092
—, —, —, ammonium salt for, 1,248,092
—, —, —, ammonium tungstate for, 1,248,092
—, —, —, amylum for, 1,248,092
—, —, —, barium nitrate for, 1,248,092
—, —, —, barium oxide for, 1,248,092
—, —, —, bauxite for, 1,248,092
—, —, —, beeswax, white, for, 1,248,092
—, —, —, bluing water for, 1,248,092
—, —, —, borate for, 1,248,092
—, —, —, borax for, 1,248,092
—, —, —, calcium chloride for, 1,248,092
—, —, —, calcium salt for, 1,248,092
—, —, —, calcium sulfate for, 1,248,092
—, —, —, calcium sulfide for, 1,248,092
—, —, —, chalk for, 1,248,092
—, —, —, clay for, 1,248,092
—, —, —, clay, china, for, 1,248,092
—, —, —, —, fire, for 1,248,092
—, —, —, —, pipe, for 1,248,092
—, —, —, —, potters, for, 1,248,092
—, —, —, corn starch for, 1,248,092
—, —, —, crylolite for, 1,248,092
—, —, —, farina for, 1,248,092
—, —, —, feldspar for, 1,248,092
—, —, —, gelatin for, 1,248,092
—, —, —, indigo blue for, 1,248,092
—, —, —, kaolin for, 1,248,092
—, —, —, magnesium chloride for, 1,248,092
—, —, —, metaphosphoric acid for, 1,248,092
—, —, —, paraffin for, 1,248,092
—, —, —, potassium nitrate for, 1,248,092
—, —, —, potassium silicate for, 1,248,092
—, —, —, potato starch for, 1,248,092
—, —, —, process for, 1,248,092
—, —, —, Prussian blue for, 1,248,092
—, —, —, rice flour for, 1,248,092
—, —, —, saccharine for, 1,248,092
—, —, —, silica for, 1,248,092
—, —, —, silicon phosphate for, 1,248,092
—, —, —, sodium bicarbonate for, 1,248,092
—, —, —, sodium carbonate for, 1,248,092
—, —, —, sodium chloride for, 1,248,092
—, —, —, sodium dioxide for, 1,248,092
—, —, —, sodium hyposulfite for, 1,248,092
—, —, —, sodium silicate for, 1,248,092
—, —, —, sodium thiosulfate for, 1,248,092
—, —, —, spermaceti for, 1,248,092
—, —, —, starch for, 1,248,092
Adhesive, fireproof, mfr. of, sugar for, 1,248,092
—, —, —, talc for, 1,248,092
—, —, —, tragacanth for, 1,248,092
—, —, —, zinc chloride for, 1,248,092
—, —, —, zinc oxide for, 1,248,092
—, —, —, zinc sulfide for, 1,248,092
—, flong made with, 1,286,490
—, flower, artificial, made with, 1,188,088
—, formaldehyde-yielding products in, 1,373,412
—, formula, balata 35, solvent naphtha 15, 1,410,685
—, —, Burgundy pitch 24, paraffin 3, rosin oil 0.08, 1,307,247
—, —, casein, borax, sodium or potassium silicate, tannic, acid, 1,327,707
—, —, —, sodium fluoride, sodium sulfite, calcium oxide or hydroxide, sodium molybdate, 1,409,472
—, —, casein 1, water 1, hydrocarbon oil 0.015, calcium hydroxide 0.2, sodium silicate 0.70, copper(ic) chloride 0.03, water 0.3, 1,456,842
—, —, caustic soda 2, rosin 1 lb., ammonium chloride 4 oz., lead acetate 4 oz., glue 1 lb., whiting 3 lbs., plaster 3 lbs., saltpeter 1 lb., flour 10 lbs., 1,380,568
—, —, celluloid 1 lb., acetone 1 gal., carbon tetrachloride q/s., 1,389,575
—, —, dextrin 40-50, glucose 5-10, water 53-35, castor oil 2-5, 1,292,333
—, —, dextrinized starch, calcium chloride, 1,337,382
—, —, rubber, dextrin, glucose, naphtha, water, 1,374,992
—, —, sodium silicate 35° Be.-20; clay 80; 1,377,739
—, —, sodium silicate solution 80, sodium carbonate 8, sodium tetraborate 4, 1,337,381
—, —, tapicoa 2 oz., sodium chloride ½ oz., glue 2 oz., glucose ½ oz., water or vinegar 14 oz., 1,360,915
—, furniture made with, 1,203,896; 1,205,376
—, gear made with, 1,223,348
—, glass cemented using, 1,168,137
—, glucose in, 1,292,333
—, glue in, 1,463,403
—, glue, animal, in, 1,267,699
—, gold foil made using, 1,152,060
—, granite carved using, 1,206,780
—, gum as, 1,246,552
—, heat-sensitive, cigar bands attached with, 1,460,641
—, horn, sound reproducing, made with, 1,369,151
—, horse-hair fabric, treatment of with, 1,469,023
—, hydrochloric acid in, 1,267,699
—, insecticide made with, 1,496,436
—, insulation, electric, made with, 1,398,143; 1,514,708
—, label made with, 1,128,071
—, laminated article made with, 1,223,348
—, lens-uniting, formula, Canada balsam 2, shellac 1, glass 5, phenolic substance 0.02, 1,386,046
—, lumber, compound, made with, 1,299,747
—, mfr. of, 1,292,068; 1,292,333; 1,435,377

Adhesive, mfr. of, acacia for, 1,235,784; 1,263,634; 1,263,635; 1,498,269
—, —, alkali hydroxide for, 1,373,412
—, —, acetic acid for, 1,168,137; 1,267,699; 1,300,250; 1,389,084; 1,435,377
—, —, acetone for, 1,158,962; 1,389,084; 1,389,574; 1,389,575
—, —, acetyl-urea for, 1,355,834
—, —, acid for, 1,257,307
—, —, albumen for, 1,373,412; 1,505,043
—, —, alcohol for, 1,158,962; 1,389,084; 1,498,269
—, —, alcohol, denatured, for, 1,515,439
—, —, alkali aluminate for, 1,248,039
—, —, alkali carbonate for, 1,311,965; 1,373,412
—, —, alkali chloride for, 1,273,571
—, —, alkali earth carbonate for, 1,373,412
—, —, alkali earth hydrate, 1,192,783; 1,275,799
—, —, alkali earth oxide for, 1,373,412
—, —, alkali hydroxide for, 1,198,100; 1,248,039; 1,257,307; 1,266,354; 1,273,571; 1,324,332; 1,378,128
—, —, alkali nitrate for, 1,184,071
—, —, alum for, 1,248,039; 1,463,403
—, —, alumina for, 1,226,892
—, —, aluminum for, 1,389,084
—, —, aluminum chloride for, 1,284,495
—, —, aluminum hydroxide for, 1,378,106
—, —, aluminum potassium sulfate for, 1,248,039
—, —, aluminum salt for, 1,284,495
—, —, aluminum silicates for, 1,498,856
—, —, aluminum sulfate for, 1,248,039
—, —, aluminum sulfite, basic, for, 1,226,892
—, —, ammonium chloride for, 1,287,841; 1,378,128
—, —, ammonium compound for, 1,287,841
—, —, ammonium hydroxide for, 1,237,011; 1,244,463; 1,267,699
—, —, ammonium resinate for, 1,311,965
—, —, ammonium salts for, 1,378,128
—, —, ammonium sulfate for, 1,378,128
—, —, amyl acetate for, 1,389,084
—, —, aniline for, 1,389,084
—, —, antiseptic for, 1,257,307
—, —, asbestos for, 1,489,991
—, —, asphalt for, 1,510,472; 1,510,591
—, —, asphaltite for, 1,137,043
—, —, bacteria for, 1,273,571
—, —, bacteria, starch reducing for, 1,257,307
—, —, balata for, 1,505,043; 1,510,591
—, —, balsams for, 1,389,084; 1,505,043
—, —, barium hydroxide for, 1,192,783; 1,275,799
—, —, barium sulfate for, 1,389,084
—, —, bentonite for, 1,498,269; 1,498,270
—, —, benzene for, 1,389,574; 1,441,160; 1,500,393; 1,510,591; 1,515,439
—, —, benzine for, 1,510,591
—, —, benzoyl-urea for, 1,355,834
—, —, *s*-bis-(hydroxymethyl)-urea for, 1,355,834
—, —, blood for, 1,516,566; 1,516,567
—, —, borax for, 1,263,634; 1,263,635; 1,373,412
—, —, boric acid for, 1,516,566; 1,516,567
—, —, boron compound for, 1,263,634; 1,263,635
—, —, British gum for, 1,198,100; 1,505,043
—, —, Burgundy pitch for, 1,307,247
Adhesive, mfr. of, cactus liquid for, 1,463,403
—, —, calcium carbonate for, 1,389,084; 1,513,191
—, —, calcium caseinate for, 1,506,201; 1,506,202; 1,506,203
—, —, calcium chloride for, 1,273,571; 1,300,096; 1,300,097; 1,506,201
—, —, calcium formaldehyde sulfoxylate for, 1,373,412
—, —, calcium hydroxide for, 1,275,799; 1,310,706; 1,373,518; 1,506,201; 1,506,202
—, —, calcium oxide for, 1,373,412; 1,506,203
—, —, calcium sulfate for, 1,515,439
—, —, camphor for, 1,350,820; 1,389,084; 1,505,043
—, —, camphor oil for, 1,192,783
—, —, camphor substitute for, 1,350,820
—, —, Canada balsam for, 1,386,046
—, —, caoutchouc for, 1,505,043
—, —, carbohydrate for, 1,378,128
—, —, carbon for, 1,226,892
—, —, carbon bisulfide for, 1,510,591
—, —, carbon tetrachloride for, 1,389,574; 1,389,575; 1,510,591
—, —, carmine for, 1,389,084
—, —, carnauba wax for, 1,311,964
—, —, casein for, 1,192,783; 1,244,463; 1,267,699; 1,310,706; 1,311,964; 1,373,412; 1,373,518; 1,505,043; 1,506,202; 1,506,203
—, —, casein composition for, 1,437,487
—, —, cassava starch for, 1,267,699; 1,275,799; 1,299,809; 1,311,964; 1,311,965; 1,324,332; 1,378,106
—, —, castor oil for, 1,389,084; 1,506,201
—, —, castor oil, sulfonated, for, 1,505,043
—, —, celery plant for, 1,232,759
—, —, celery seed for, 1,232,759
—, —, celluloid for, 1,389,084; 1,389,574; 1,389,575
—, —, cellulose acetate for, 1,389,084; 1,505,043
—, —, cellulose butyrate for, 1,389,084
—, —, cellulose derivative for, 1,505,043
—, —, cellulose ester for, 1,389,084
—, —, cellulose ether for, 1,188,376; 1,389,084; 1,505,043
—, —, cellulose formate for, 1,505,043
—, —, cellulose nitrate for, 1,389,084; 1,505,043
—, —, cellulose sulfite liquor for, 1,203,856; 1,290,118; 1,311,215; 1,311,216; 1,311,217; 1,311,218; 1,311,219; 1,322,220; 1,311,221; 1,311,222; 1,414,312; 1,431,165; 1,498,856
—, —, cellulose xanthate for, 1,378,106
—, —, cement, Portland, for, 1,192,783
—, —, ceresin for, 1,311,964
—, —, china clay, English, for, 1,311,964
—, —, chloroform for, 1,441,160; 1,500,393
—, —, citric acid in, 1,300,250
—, —, clay for, 1,192,783; 1,311,964
—, —, clay, china, for, 1,413,921
—, —, —, colloidal, for, 1,498,269; 1,498,270
—, —, —, terra cotta, for, 1,498,856
—, —, clove oil for, 1,237,011
—, —, coal tar pitch for, 1,441,160; 1,500,393
—, —, colloid for, 1,505,043
—, —, compound, $C_4H_8OS_3$, for, 1,373,412
—, —, copal for, 1,515,439
—, —, copper for, 1,244,463

Adhesive, mfr. of, copper ammonium sulfate for, 1,267,699
—, —, copper oxide for, 1,244,463
—, —, copper salt for, 1,244,463
—, —, copper sulfate for, 1,373,412; 1,498,270
—, —, corn cob for, 1,285,247; 1,317,380
—, —, corn starch for, 1,198,100; 1,287,841; 1,311,964; 1,324,332; 1,463,403; 1,498,269
—, —, corn syrup for, 1,237,011
—, —, cotton for, 1,389,084
—, —, cresol for, 1,389,084
—, —, cuprammonium cellulose for, 1,505,043
—, —, cuprammonium compound for, 1,244,463
—, —, cuprammonium hydroxide for, 1,244,463
—, —, dammar for, 1,515,439
—, —, dextrin for, 1,198,100; 1,237,011; 1,373,412; 1,489,991; 1,498,269; 1,505,043; 1,506,202; 1,506,203
—, —, dihydroxy-diphenyl-dimethyl-methane for, 1,158,962
—, —, dihydroxy-diphenyl-dimethyl-methane aldehyde condensate for, 1,158,962
—, —, dolomite for, 1,513,191
—, —, elaterite for, 1,137,043
—, —, elemi for, 1,515,439
—, —, emery for, 1,226,892
—, —, enzyme for, 1,273,571
—, —, enzyme, starch reducing, for, 1,257,307
—, —, ether for, 1,158,962
—, —, ethyl acetate for, 1,389,084
—, —, ethyl alcohol for, 1,515,439
—, —, ethyl cellulose for, 1,389,084; 1,505,043
—, —, ethyl starch for, 1,350,820
—, —, fats for, 1,505,043
—, —, fatty acids for, 1,505,043
—, —, feldspar for, 1,378,128
—, —, ferment, starch reducing for, 1,257,307
—, —, fish bladders for, 1,435,377
—, —, fish scales for, 1,435,377
—, —, flour for, 1,435,377
—, —, formaldehyde for, 1,244,463; 1,287,841; 1,355,834; 1,413,921
—, —, formaldehyde sodium bisulfite for, 1,373,412
—, —, fusel oil for, 1,389,084
—, —, gasolene for, 1,441,160; 1,500,393
—, —, gelatin for, 1,168,137; 1,373,412; 1,489,991; 1,505,043
—, —, gilsonite for, 1,137,043
—, —, glass for, 1,386,046
—, —, glucose for, 1,360,915; 1,489,991
—, —, glue for, 1,300,250; 1,360,915; 1,373,412; 1,463,403; 1,498,269; 1,505,043
—, —, glue, animal, for, 1,184,071; 1,190,756; 1,267,699; 1,413,921
—, —, —, bone, for, 1,192,783
—, —, —, hide, for, 1,192,783
—, —, —, white, for, 1,488,765
—, —, gluten for, 1,373,412
—, —, glycerol for, 1,498,269; 1,498,270; 1,505,043
—, —, gold for, 1,389,084
—, —, gums for 1,373,412; 1,389,084
—, —, gutta percha for, 1,505,043; 1,510,591
—, —, gypsum for, 1,190,756
—, —, hexamethylenetetramine for, 1,287,841
—, —, hide for, 1,373,412
Adhesive, mfr. of, hydrochloric acid for, 1,237,011; 1,267,699; 1,287,841
—, —, hydrogen dioxide for, 1,168,137; 1,373,412
—, —, iron oxide for, 1,226,892; 1,498,856
—, —, iron silicates for, 1,498,856
—, —, kauri for, 1,515,439
—, —, kerosene for, 1,310,706; 1,506,201
—, —, konjak root for, 1,236,183
—, —, lampblack for, 1,389,084
—, —, lime for, 1,192,783
—, —, limestone for, 1,513,191
—, —, linseed oil for, 1,137,043; 1,510,472
—, —, magnesia for, 1,203,856
—, —, magnesite for, 1,203,856; 1,488,765
—, —, magnesite, clingstone, for, 1,488,765
—, —, magnesium carbonate for, 1,513,191
—, —, magnesium chloride for, 1,203,856; 1,273,571; 1,300,096; 1,300,097
—, —, magnesium oxide for, 1,203,856; 1,506,202
—, —, magnesium oxychloride for, 1,203,856
—, —, manila gum for, 1,515,439
—, —, methyl alcohol for, 1,244,463; 1,515,439
—, —, milk, skimmed, for, 1,235,784
—, —, molasses for, 1,389,084; 1,489,991
—, —, naphtha for, 1,506,415
—, —, naphthalene for, 1,389,084; 1,505,043
—, —, naphthol for, 1,389,084
—, —, nitrate for, 1,184,071
—, —, nitric acid for, 1,435,377
—, —, nitro-benzene for, 1,389,084
—, —, oils for, 1,505,043; 1,506,203
—, —, oils, essential, for, 1,389,084
—, —, —, mineral, for, 1,373,518; 1,510,591
—, —, —, vegetable, for, 1,373,518
—, —, paper for, 1,358,834; 1,413,921
—, —, paraffin for, 1,307,247
—, —, paraffin oil for, 1,310,706; 1,311,964; 1,505,043
—, —, parolite for, 1,137,043
—, —, petrolatum for, 1,137,043
—, —, petroleum for, 1,373,518
—, —, phenol for, 1,237,011; 1,386,046; 1,389,084; 1,435,377; 1,498,270
—, —, phenol aldehyde condensate for, 1,505,043
—, —, phenol, phosphoric acid esters of, for, 1,505,043
—, —, phenyl phosphate for, 1,350,820
—, —, pigment for, 1,190,756; 1,389,084
—, —, pine oil for, 1,192,783
—, —, pitch for, 1,307,247
—, —, plaster for, 1,488,765
—, —, plaster of Paris for, 1,515,439
—, —, potassium hydroxide for, 1,311,965
—, —, potassium nitrate for, 1,184,071
—, —, potassium plumbate for, 1,198,100
—, —, potassium silicate for, 1,489,991; 1,498,856; 1,516,566; 1,516,567
—, —, potato starch for, 1,198,100; 1,248,039; 1,266,354; 1,324,332; 1,378,106; 1,498,269; 1,469,270
—, —, process for, 1,137,043; 1,158,962; 1,162,712; 1,168,137; 1,184,071; 1,190,756; 1,192,783; 1,198,100; 1,203,856; 1,226,892; 1,235,784; 1,236,183; 1,237,011; 1,244,463; 1,248,039; 1,257,307; 1,263,634; 1,263,635; 1,266,354; 1,267,699; 1,273,571; 1,275,799; 1,284,495;

1,297,405; 1,299,809; 1,300,096; 1,300,097; 1,300,250; 1,310,706; 1,311,964; 1,311,965; 1,324,332; 1,350,820; 1,355,834; 1,360,915; 1,373,412; 1,373,518; 1,378,106; 1,378,128; 1,386,046; 1,389,084; 1,389,574; 1,389,575; 1,413,921; 1,435,377; 1,437,487; 1,440,356; 1,441,160; 1,463,403; 1,488,765; 1,489,991; 1,498,269; 1,498,270; 1,498,856; 1,505,043; 1,506,201; 1,506,202; 1,506,203; 1,506,415; 1,510,472; 1,510,591; 1,513,191; 1,515,439; 1,516,566; 1,516,567
Adhesive, mfr. of, proteid for, 1,192,783, 1,373,412
—, —, pumice for, 1,162,712
—, —, quartz for, 1,378,128; 1,498,856
—, —, resin for, 1,373,518; 1,389,084; 1,505,043; 1,506,203; 1,515,439
—, —, rice flour for, 1,498,269
—, —, rosin oil for, 1,307,247
—, —, rosin for, 1,311,965; 1,373,518
—, —, rosin, grade F, for, 1,506,415
—, —, rosin size for, 1,489,991
—, —, rubber for, 1,236,183; 1,441,160; 1,500,393; 1,506,415; 1,510,591
—, —, rubber, plantation, for, 1,506,415
—, —, —, unsmoked gum, for, 1,389,574
—, —, rubber composition for, 1,437,487
—, —, sago starch for, 1,198,100; 1,248,039; 1,266,354; 1,324,332; 1,378,106
—, —, sandarac for, 1,515,439
—, —, shellac for, 1,386,046; 1,389,084; 1,515,439
—, —, shellac, orange, for, 1,463,403
—, —, silica for, 1,226,892; 1,378,128
—, —, soap for, 1,413,921; 1,505,043
—, —, sodium aluminate for, 1,248,039; 1,378,106
—, —, sodium bisulfate for, 1,267,699
—, —, sodium chloride for, 1,300,250; 1,360,915; 1,373,518; 1,506,203
—, —, sodium fluoride for, 1,192,783; 1,506,203
—, —, sodium formaldehyde sulfoxylate for, 1,373,412
—, —, sodium hydroxide for, 1,198,100; 1,248,039; 1,257,307; 1,266,354; 1,267,699; 1,299,809; 1,310,706; 1,311,965; 1,317,380; 1,378,106; 1,378,128; 1,506,202
—, —, sodium hyposulfite for, 1,506,201
—, —, sodium plumbate for, 1,198,100
—, —, sodium phosphate for, 1,506,201
—, —, sodium phosphate (Na_3PO_4), for, 1,267,699; 1,373,518
—, —, sodium resinate for, 1,311,965
—, —, sodium silicate for, 1,162,712; 1,235,784; 1,373,412; 1,489,991; 1,498,270; 1,498,856; 1,513,191; 1,516,566; 1,516,567
—, —, sodium silicate, "N-grade," for, 1,489,991
—, —, —, "U-grade," for, 1,489,991
—, —, soya bean press cake for, 1,460,757
—, —, starch for, 1,198,100; 1,237,011; 1,248,039; 1,257,307; 1,266,354; 1,267,699; 1,273,571; 1,275,799; 1,287,841; 1,311,964; 1,311,965; 1,324,332; 1,373,412; 1,378,106; 1,413,921; 1,505,043; 1,506,202
—, —, starch, hydrolyzed, for, 1,198,100
—, —, —, soluble, for, 1,237,011
—, —, starch ethers for, 1,350,820
—, —, starch xanthate for, 1,378,106
Adhesive, mfr. of, strontium hydroxide for, 1,192,783; 1,275,799
—, —, sugars for, 1,505,043
—, —, sulfur for, 1,510,472
—, —, sulfuric acid for, 1,435,377
—, —, syrup for, 1,498,269
—, —, talc for, 1,162,712; 1,192,783; 1,311,964
—, —, tapioca for, 1,360,915
—, —, tapioca flour for, 1,311,964; 1,311,965
—, —, tapioca starch for, 1,198,100; 1,248,039; 1,266,354; 1,275,799; 1,284,495; 1,324,332; 1,378,106; 1,498,269; 1,498,270
—, —, tartaric acid for, 1,300,250
—, —, terpenes for, 1,192,783
—, —, thiourea for, 1,355,834
—, —, thymol for, 1,498,270
—, —, titanium oxide for, 1,226,892
—, —, tragacanth for, 1,378,106; 1,498,269; 1,505,043
—, —, tragasol for, 1,505,043
—, —, triphenyl phosphate for, 1,389,084
—, —, tung oil for, 1,137,043
—, —, turpentine for, 1,192,783; 1,510,591
—, —, turpentine oil for, 1,192,783
—, —, urea for, 1,355,834
—, —, vaseline for, 1,137,043
—, —, vegetable juice for, 1,300,250
—, —, vinegar for, 1,235,784; 1,360,915
—, —, vinegar, cider, for, 1,235,784
—, —, viscose for, 1,378,106; 1,505,043
—, —, wax for, 1,311,964; 1,505,043
—, —, wheat starch for, 1,198,100
—, —, whiting for, 1,488,765; 1,498,269; 1,498,270
—, —, wood ash lye for, 1,235,784
—, —, zinc chloride for, 1,168,137; 1,268,354; 1,273,571; 1,284,495; 1,300,096; 1,300,097
—, —, zinc formaldehyde sulfoxylate for, 1,373,412
—, —, zinc lactate for, 1,266,354
—, —, zinc oxide for, 1,389,084;
—, —, zinc salt for, 1,284,495
—, —, zinc sulfate for, 1,498,270
—, marking using, 1,374,329
—, metal foil made using, 1,152,060
—, molded article made with, 1,125,973; 1,223,348; 1,398,143; 1,344,765; 1,433,730
—, oil-proofing composition made with, 1,513,139
—, packing made with, 1,212,688
—, padding made with, 1,212,688
—, painting, oil, imitation, made with, 1,485,648
—, paper, bronzed, made with, 1,223,399
—, —, coated, made with, 1,265,357
—, —, etchable coating for, made with, 1,265,357
—, paper containers made with, 1,137,043
—, paraffin as, 1,246,552
—, pencil for, 1,222,152
—, phonograph horn made with, 1,369,151; 1,505,972
—, plastic made with, 1,199,251
—, plate, resilient, made with, 1,288,967
—, playing card made with, 1,152,605
—, printer's blanket contg., 1,464,242
—, resin as, 1,246,552
—, roofing tile contg., 1,464,242
—, rosin in, 1,467,356
—, rosin size used in, 1,292,068
—, rosin soap used in, 1,292,068

Adhesive, rosin and tallow in, 1,205,831
—, rubber in, 1,467,356
—, sand blast carving using, 1,206,780
—, sassafras oil in, 1,467,356
—, sheet of, mfr. of, 1,300,250
—, shellac as, 1,246,552; 1,467,356
—, shellac, orange, in, 1,463,403
—, shingles contg., 1,464,242
—, ship-protector plate made with, 1,288,967
—, shoe-box toe, made with, 1,380,865
—, shoe sole made with, 1,280,957
—, silk, artificial, cellulose acetate, sizing of using, 1,506,052
—, —, —, cellulose ester, sizing of using, 1,506,052
—, —, —, cellulose ether, sizing of using, 1,506,052
—, —, —, cuprammonium, sizing of using, 1,506,052
—, —, —, sizing of using, 1,506,052
—, —, —, viscose, sizing of using, 1,506,052
—, sodium bisulfate in, 1,267,699
—, sodium bisulfite in, 1,292,333
—, sodium hydroxide in, 1,267,699
—, sodium phosphate (Na_3PO_4) in, 1,267,699
—, sodium silicate in, 1,377,739
—, sodium silicate and salt solution as, 1,379,639
—, sound amplifying chamber made with, 1,369,151
—, starch in, 1,267,699
—, starch ethers in, 1,350,820
—, starch ethers, compounds of and, 1,350,820
—, starchy, mfr. of, carnauba wax for, 1,311,964
—, —, —, casein for, 1,311,964
—, —, —, cassava starch for, 1,311,964
—, —, —, ceresin for, 1,311,964
—, —, —, china clay, English, for, 1,311,964
—, —, —, clay for, 1,311,964
—, —, —, corn starch for, 1,311,964
—, —, —, paraffin for, 1,311,964
—, —, —, process for, 1,311,964
—, —, —, starch for, 1,311,964
—, —, —, talc for, 1,311,964
—, —, —, tapioca flour for, 1,311,964
—, —, —, wax for, 1,311,964
—, stream-line casings made with, 1,344,765; 1,433,730
—, surfaces, decorating of, using, 1,211,455
—, table mat made with, 1,212,688
—, tallow and rosin in, 1,205,831
—, textile, marking of using, 1,374,329
—, tile, surfacing of using, 1,518,398
—, transfers made with, 1,161,711
—, trunks contg., 1,464,242
—, tube made with, 1,400,078
—, urea-formaldehyde condensate as, 1,355,834
—, varnish as, 1,246,552; 1,386,896
—, vault, self-sealing, made with, 1,191,964
—, veneer, composite, made with, 1,154,138
—, veneering tape made with, 1,225,734; 1,225,735
—, wall board made with, 1,369,151
—, waterproof, calcium hydroxide in, 1,291,396
—, —, casein in, 1,291,396
—, —, formaldehyde for, 1,413,921
—, —, formula, casein 1, water 2, oil .015, calcium hydroxide .15, water .90; sodium silicate .70, 1,291,396
Adhesive, waterproof, hydrocarbon oil in, 1,291,396
—, —, kerosene in, 1,291,396
—, —, mfr. of, 1,291,396
—, —, —, casein for, 1,373,412; 1,456,842
—, —, —, chromium(ic) oxide for, 1,124,286
—, —, —, glue, animal, for, 1,124,286
—, —, —, lead carbonate for, 1,124,286
—, —, —, process for, 1,124,286
—, —, —, zinc oxide for, 1,124,286
—, —, method of supplying article with, 1,413,921
—, —, paraffin oil in, 1,291,396
—, —, sodium silicate in, 1,291,396
—, —, X-ray film package sealed with, 1,441,160
—, wax as, 1,246,552
—, web of, mfr. of, 1,300,250
—, wood substitute made with, 1,369,151; 1,427,378
—, work of art made using, 1,485,648
—, *see also Adherent; Binder; Bookbinding gum; Casein glue; Cement; Coating composition; Cumarone; Glue; Indene; Paracoumarone; Paraindene; Paste; Phenol aldehyde condensate; Sizing; Tung oil*
Adhesive joint, mfr. of, process for, 1,284,859; 1,284,860; 1,284,861; 1,284,862; 1,284,863
Adhesive paper, mfr. of, asphalt for, 1,358,834
—, —, asphalt, Trinidad, for, 1,358,834
—, —, clay for, 1,358,834
—, —, glue for, 1,358,834
—, —, gums for, 1,358,834
—, —, gutta percha for, 1,358,834
—, —, process for, 1,358,834
—, —, rubber for, 1,358,834
—, *see also Sealing strip*
Adhesive paste, China wood oil in, 1,331,192
Adhesive plaster, film, photographic, made with, 1,240,344
Adhesive plaster, zinc oxide in, 1,428,495
Adhesive plaster container, construction of, 1,246,830
Adhesive sheets, mfr. of, cotton batting for, 1,299,747
—, —, fabric for, 1,299,747
—, —, felt for, 1,299,747
—, —, fibrous material for, 1,299,747
—, —, glue for, 1,299,747
—, —, paper for, 1,299,747
—, —, phenol aldehyde condensate for, 1,299,747
—, —, process for, 1,299,747
Adhesive surfaces, rendering non-adhesive, glue for, 1,361,894
Adiantum formosum, see Ferns, maidenhair
Adipic acid, mfr. of, apparatus for, 1,485,706
—, —, carbon cathode for, 1,485,706
—, —, hydrochloric acid for, 1,485,706
—, —, lead anode for, 1,485,706
—, —, naphtha, Caucasian, for, 1,485,706
—, —, nitric acid for, 1,485,706
—, —, oil, mineral, Caucasian, for, 1,485,706
—, —, oxygen for, 1,485,706
—, —, perchromates for, 1,485,706
—, —, petroleum for, 1,485,706
—, —, platinum anode for, 1,485,706
—, —, process for, 1,485,706
—, —, sodium bisulfate for, 1,485,706

Adipic acid, mfr. of, solar oil for, 1,485,706
—, —, sulfuric acid for, 1,485,706
Adipic ketone, cellulose nitrate solvent, 1,147,850
Adipic ketone, finish remover made with, 1,145,980
—, paint remover made with, 1,147,850
—, varnish remover made with, 1,147,850
Adipin ketone, see Adipic ketone
Adipinic acid, see Adipic acid
Adipite, see Chabazite
Adnephine, see Adrenalin
Adnephrine, see Adrenalin
Adrenal glands, active principle of, mfr. of, 1,460,832
—, —, *see also Adrenalin*
Adrenalin, anesthetic, local, made with, 1,243,349
—, 4-chlor-*m*-tolyl-acetate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl-cinnamate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl-formate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl-oxalate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl phenyl-propionate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl propionate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl *a*-toluate, composition of and, 1,498,641
—, dentistry, local anesthetic for, made with, 1,243,349
—, derivatives of, mfr. of, process for, 1,472,298
—, mfr. of, acetic acid for, 1,399,144
—, —, acetyl chloride for, 1,399,144
—, —, adrenalin tartrate for, 1,423,101
—, —, alcohol for, 1,399,144
—, —, alkali bicarbonate for, 1,399,144
—, —, alkali carbonate for, 1,399,144
—, —, alkali phosphate for, 1,399,144
—, —, ammonia for, 1,423,101
—, —, blood for, 1,515,976
—, —, bull supra-renal capsule for, 1,515,976
—, —, 3.4-diacetoxy-benzaldehyde for, 1,399,144
—, —, 3.4-diacetoxy-a-nitromethyl-benzyl alcohol made with, 1,399,144
—, —, dog supra-renal capsule for, 1,515,976
—, —, formaldehyde for, 1,399,144
—, —, hydrogen for, 1,423,101
—, —, hydrogen sulfide for, 1,399,144
—, —, methyl alcohol for, 1,423,101
—, —. 5-(methylamino-acetyl)-pyrocatechol for, 1,423,101
—, —, 5(methylaminoacetyl)-pyrocatechol *1*-3.4-a-(methylaminomethyl)-benzyl tartrate for, 1,423,101
—, —, nitromethane for, 1,399,144
—, —, oxygen for, 1,515,976
—, —, platinum, colloidal, for, 1,423,101
—, —, process for, 1,399,144; 1,423,101; 1,432,291; 1,515,976
—, —, protocatechualdehyde for, 1,399,144
—, —, pyridine for, 1,399,144
—, —, sodium acetate for, 1,399,144
—, —, supra-renal capsule for, 1,515,976
Adrenalin, mfr. of, *d*-tartaric acid for, 1,423,101
—, —, zinc dust for, 1,399,144
—, nerve blocking material made with, 1,243,349
—, preparation of, 1,460,832
—, synthetic, mfr. of, 1,423,101
—, *see also Dioxyphenylethanolmethylamine; Hormone; Suprarenal glands, active principle of*
Adrenaline hydrochloride, 1.2-dihydroxy-4-methylamino-ethyl-ethyl-4-ol benzene hydrochloride made with, 1,472,298
Adrenaline tartrate, adrenaline made with, 1,423,101
—, mfr. of, hydrogen for, 1.423,101
—, —, methyl alcohol for, 1,423,101
—, —, 4-(methylaminoacetyl)-pyrocatechol for, 1,423,101
—, —, 5-(methylaminoacetyl)-pyrocatechol *1*-3.4-dihydroxy-*a*-(methylaminomethyl) benzyl tartrate for, 1,423,101
—, —, platinum, colloidal, for, 1,423,101
—, —, process for, 1,423,101
—, —, *d*-tartaric acid for, 1,423,101
Adrenine, see Adrenaline
Adrenolon, see Methylaminoacetopyrocatechin
Adrine, see Adrenaline
Adurol, photographic developer made with, 1,207,042
Advertising card, mfr. of, cotton flock for, 1,168,747
—, —, paper for, 1,168,747
—, —, process for, 1,168,747
—, —, silk flock for, 1,168,747
—, —, varnish for, 1,168,747
—, —, wool flock for, 1,168,747
—, record, phonograph, made with, 1,477,117
Advertising display card, mfr. of, cellulose film for, 1,487,705
—, —, paper for, 1,487,705
—, —, process for, 1,487,705
Aegopodium, see Gout weed
Aegopodium podagraria, see Gout weed
Aerobic bacteria, see Bacteria, aerobic
Aeronautics, see also Aircraft; Aviation; Balloon
Aeroplane, see Airplane
Aeroplane cloth, coated, see Airplane dope
Aeroplane dope, see Airplane dope
Aeroplane element, see Airplane fabrics, doping
—, *see also Airplane fabrics, fireproofing*
Aeschinomene lagenaria, see Sola wood
Aeschynomene aspera, see Sola wood
Aeschynomene cannabina, see Sola wood
Aesculin, color photography filter, 1,443,012
—, fluorescent substances, protection from, compound suitable for, contg., 1,511,874
—, photochemical processes, protection from, compound suitable for, contg., 1,511,874
—, photographic emulsion, protection from, compound suitable for, contg., 1,511,874
—, therapeutic product, protection from, compound suitable for, contg., 1,511,874
—, ultra-violet filter, protection from, compound suitable for, contg., 1,511,874
—, ultra-violet light, protection from, compound suitable for, contg., 1,511,874

Aesculin, X-ray screen, protection from, compound suitable for, contg., 1,511,874
—, *see also Esculin*
Aesculinic acid, see Esculin
Aesolis, liquor of, see Liquor aesolis
Aethiops mineral, see Mercury(ic) sulfide, black
Aethrol, see Dericin oil
Aethylatine, see Gelatin, formaldehyde treated
African dum nut, see Ivory nut
African Pepper, see Capsicum
Agalite, plastic made with, 1,511,949
—, roofing made with, 1,511,949
—, wall board made with, 1,511,949
—, *see also Talc*
Agar, bacteria medium contg., 1,368,249
—, bacteria, sulfur oxidizing, obtained using, 1,449,435
—, *see also Agar Agar*
Agar-agar, bacteria, distribution of, composition for, made with, 1,252,332
—, bacteria grown on, 1,457,097
—, bacterial compost made with, 1,252,332
—, battery, dry, made using, 1,295,475; 1,316,597; 1,481,178; 1,484,780
—, bleaching, chlorine for, 1,453,848
—, —, sodium bisulfate for, 1,453,848
—, butter made with, 1,509,082
—, calcium carbonate, colloidal, made with, 1,493,847
—, candy coloring and/or flavoring composition contg., 1,388,174
—, cellulose ether, composition of and, 1,217,028
—, cellulose sulfite liquor as emulsifier for, 1,440,356
—, clarian, coal, bituminous, separation from of, using, 1,499,872
—, —, durain, separation from of, using, 1,499,872
—, —, fusain, separation from of, using, 1,499,872
—, —, shale, barren, separation from of, using, 1,499,872
—, —, —, carboniferous, separation from of, using, 1,499,872
—, clothing made with, 1,245,268
—, coal, bituminous, clarian, separation of from, using, 1,499,872
—, —, —, vitrain, separation of from, using, 1,499,872
—, coke made with, 1,499,872
—, colloidal, mfr. of, alcohol for, 1,392,849
—, —, —, benzene for, 1,392,849
—, —, —, benzine for, 1,392,849
—, —, —, hydrocarbon, chlorinated, for, 1,392,849
—, —, —, ketones for, 1,392,849
—, —, —, oils for, 1,392,849
—, —, —, petroleum for, 1,392,849
—, —, —, process for, 1,392,849
—, —, —, soap for, 1,392,849
—, —, —, water for, 1,392,849
—, —, *see also Agar-Agar, powdered*
—, colloidal dispersions of, preparing, 1,392,849
—, colloidal solutions stabilized with, 1,429,876
—, diaphragm made with, 1,387,004
—, disinfecting composition made with, 1,265,463; Re-14,514
—, drying, 1,453,848
Agar-agar, durain, clarian, separation of from, using, 1,499,872
—, —, vitrain, separation of from, using, 1,499,872
—, emulsifying with, 1,440,356
—, ethyl cellulose, composition of and, 1,217,028
—, explosive contg., 1,398,931
—, fabric stiffening material contg., 1,421,700
—, fertilizer made with, 1,252,332
—, filament, artificial, made with, 1,217,028
—, film, motion picture, made with, 1,183,698; 1,361,783
—, —, —, colored, made with, 1,250,713
—, fish canned with, 1,408,803
—, food product made with, 1,163,175; 1,497,179; 1,497,193
—, formaldehyde, solidified, made with, 1,265,463; Re-14,514
—, fusain, clarian, separation of from, using, 1,499,872
—, —, vitrain, separation of from, using, 1,499,872
—, gelatinous material made from, process for, 1,289,053
—, glass etching paste made with, 1,470,772
—, graphite, colloidal, made with, 1,175,958
—, graphite suspended in, 1,409,658
—, hair, artificial, made with, 1,217,028
—, japan made with, 1,357,688
—, laxative made with, 1,201,742; 1,265,463; Re-14,514
—, leather substitute made with, 1,174,734; 1,387,004
—, mfr. of, 1,453,848
—, —, *Gelidium* for, 1,399,359
—, —, *Gloiapeltis* for, 1,399,359
—, milk, imperishable, made with, 1,509,083
—, paper, photographic, made with, 1,504,150
—, paper waterproofing mixture contg., 1,387,004
—, paratyphoid germs, detection of using, 1,247,522
—, pharmaceutical product, coating for, made with, 1,161,690
—, photographic element contg., 1,290,794
—, powdered, mfr. of, 1,453,848
—, —, *see also Agar-Agar, colloidal*
—, properties of, 1,499,872
—, rubber substitute made with, 1,174,734; 1,387,004
—, shale, barren, clarian, separation of from, using, 1,499,872
—, —, —, vitrain, separation of from, using, 1,499,872
—, —, carboniferous, clarian, separation of from, using, 1,499,872
—, —, —, vitrain, separation of from, using, 1,499,872
—, shoe made with, 1,245,268
—, shoe filler made with, 1,138,910
—, shoe sole made with, 1,174,734
—, silk, artificial, made with, 1,217,028
—, soap pellets contg., 1,436,928
—, stencil made with, 1,519,975
—, sterilizing composition made with, 1,265,463; Re-14,514
—, therapeutic product made with, 1,493,847
—, typhoid germs, detection of using, 1,247,522

Agar-agar, vitrain, coal, bituminous, separation from of, using, 1,499,872
—, —, durain, separation from of, using, 1,499,872
—, —, fusain, separation from of, using, 1,499,872
—, —, shale, barren, separation from of, using, 1,499,872
—, —, —, carboniferous, separation from of, using, 1,499,872
—, water-Japan contg., 1,357,688
—, waterproof material made with, 1,245,268
—, wire-drawing lubricant contg., 1,409,658
—, *see also Gelatin; Seaweed*
Agar jelly, photo-electric cell contg., 1,375,474
Agate, artificial, mfr. of, aluminum oxide for, 1,183,255
—, —, —, calcium oxide for, 1,183,255
—, —, —, cement, Portland, for, 1,183,255
—, —, —, ilmenite for, 1,183,255
—, —, —, magnesium oxide for, 1,183,255
—, —, —, process for, 1,183,255
—, —, —, silicon dioxide for 1,183,255
—, imitation, mfr. of, alcohol for, 1,496,198
—, —, —, camphor for, 1,496,198
—, —, —, castor oil for, 1,496,198
—, —, —, cellulose nitrate for, 1,496,198
—, —, —, cinnamon oil for, 1,496,198
—, —, —, ether for, 1,496,198
—, —, —, naphthalene for, 1,498,198
—, —, —, potassium silicate for, 1,496,198
—, —, —, process for, 1,496,198
—, —, —, silicic acid for, 1,496,198
—, —, —, sodium silicate for, 1,496,198
—, transparency made using, 1,502,594
Agateware, cleaner for, 1,253,353
—, polish for, 1,253,353
Agathine, see Salicylic aldehyde-as-methyl-phenyl-hydrazone
Agave, cellulose made with, 1,509,273
—, cellulose fibers made with, 1,509,273
—, cellulose nitrate made with, 1,509,273
—, fibers from, mfr. of, 1,368,750
—, fibers prepared from, 1,350,621
—, paper made with, 1,509,273
Agave Americana, see Agave plant
Agave Heteracantha, fibers from, 1,350,621
Agave Lechuguilla, fibers prepared from, 1,350,621
Agave Mexicana, fibers from, 1,350,621
Agave plant juice, ethyl alcohol made with, 1,182,691
Agave Sisalensis, see Agave plant
Agglomerating apparatus, 1,239,221
Agglutinant, iron coated with, 1,273,927
—, mfr. of, air for, 1,273,927
—, —, coal tar for, 1,273,927
—, —, nitrogen for, 1,273,927
—, —, oil for, 1,273,927
—, —, petroleum tar for, 1,273,927
—, —, process for, 1,273,927
—, —, tar for, 1,273,927
—, *see also Adhesives*
Agglutinine, hog cholera serum antitoxin made with, 1,475,580
—, serum, clarified, made with, 1,475,580
Agnolin, see Lanolin
Aiming apparatus, graduations illuminated on, copper coating for, 1,304,702
—, —, radio-active substance for, 1,304,702
—, —, silver coating for, 1,304,702
Air, acenaphthenequinone made with, 1,439,500
—, acenaphthenequinone oxidized using, 1,423,980
—, acenaphthylene made with, 1,439,500
—, 7.8-acenaphthylenediol oxidized using, 1,423,980
—, acetaldehyde, catalyst for the mfr. of, made with, 1,375,345
—, acetaldehyde oxidized with, 1,410,207
—, acetic acid made with, 1,174,250; 1,286,255; 1,286,256; 1,308,173; 1,437,483
—, acetone made with, 1,438,123; 1,497,817
—, acetone, explosive mixtures of and, 1,143,623
—, acids, organic, made with, 1,497,817; 1,517,968
—, —, removal of from, 1,521,348
—, agglutinant made with, 1,273,927
—, agitation of sewage with, 1,364,676
—, air, liquid, made with, 1,205,477; 1,205,478
—, alizarin made with, 1,150,152
—, alcohols made with, 1,392,886; Re-15,789; 1,517,968
—, alcohol, sulfating of using, 1,159,032; 1,159,033
—, alcohol for cooling during compression of, 1,320,167
—, alcohols oxidized using, 1,345,323
—, aldehydes oxidized using, 1,345,323
—, aldehydes made with, 1,392,886; Re-15,789; 1,517,968
—, alkali, sulfating of using, 1,159,032; 1,159,033
—, alkaline manganate made with, 1,318,891
—, alkaline permanganate made with, 1,318,891
—, aluminum made with, 1,206,874; 1,230,143
—, aluminum chloride made with, 1,147,832
—, aluminum compounds, copper sulfate, removal from of, using, 1,503,229
—, aluminum hydroxide made with, 1,251,295; 1,251,296
—, aluminum nitride made with, 1,143,482
—, aluminum oxide made with, 1,136,549
—, aluminum silicon nitride prepared with, 1,379,668
—, amines made with, 1,504,730
—, ammonia made with, 1,138,191; 1,163,095; 1,172,863; 1,189,638; 1,206,155; 1,241,919; 1,241,920; 1,256,272; 1,256,273; 1,390,200; 1,494,735; 1,503,319; 1,504,730; 1,516,720
—, ammonia, catalyst for the mfr. of, made with, 1,152,930; 1,206,155; 1,491,588
—, ammonia, removal of from, apparatus for, 1,141,266; 1,213,796
—, —, —, castor oil, sulfonated, for, 1,213,796
—, —, —, process for, 1,213,796
—, ammonia as constituent of, 1,218,584
—, ammonia oxidized using, 1,345,323
—, ammonium carbonate made with, 1,154,145; 1,494,735
—, ammonium chloride made with, 1,484,932
—, ammonium hydroxide made with, 1,465,310; 1,480,291
—, ammonium metaphosphate made with, 1,514,912

Air, ammonium nitrate made with, 1,237,884; 1,252,976
—, ammonium nitrite made with, 1,172,863; 1,237,884
—, ammonium phosphate [$(NH_4)_2HPO_4$], made with, 1,514,912
—, —, [$(NH_4)H_2PO_4$], made with 1,514,912
—, —, [$(NH_4)_3PO_4$], made with 1,514,912
—, ammonium pyrophosphate made with, 1,514,912
—, ammonium resinate made with, 1,354,575
—, ammonium salt made with, 1,160,836; 1,494,735
—, ammonium sulfate made with, 1,160,836; 1,274,247; 1,291,745; 1,494,735; 1,516,720
—, ammonium sulfite made with, 1,160,836; 1,503,319
—, 2-anilino-anthraquinone made with, 1,238,932
—, animal matter, sterilization of, using, 1,250,079
—, anthracene oxidized with, 1,444,068
—, anthracene purified with, 1,324,716; 1,324,717
—, anthraquinone made with, 1,355,098; 1,444,068
—, anthraquinone purified with, 1,324,716
—, antimony made with, 1,144,402; 1,146,373; 1,150,787; 1,163,286; 1,182,320; 1,192,037; 1,243,681
—, antimony trioxide made with, 1,504,685
—, argon from, 1,211,125; 1,360,853; 1,426,461
—, argon as constituent of, 1,218,584
—, argon from, covering, 1,420,802
—, arsenates, made with, 1,150,787
—, arsenic made using, 1,144,402; 1,146,373; 1,150,787; 1,163,286; 1,182,320; 1,188,705; 1,198,095; 1,243,681
—, arsenic acid made with, 1,415,323
—, arsenic compounds, copper sulfate, removal from of, using, 1,503,229
—, arsenic oxide made with, 1,198,095
—, asbestos, separating of, using, 1,243,096
—, asphalt made with, 1,385,511
—, asphalt bases, oxidation of using, 1,520,885
—, bactericide using, 1,250,079
—, balata vulcanized using, 1,213,905
—, barium manganate made with, 1,318,891
—, barium permanganate made with, 1,318,891
—, battery depolarized by copper oxide and, 1,370,119
—, battery, dry, made with, 1,287,634
—, —, —, depolarizer for, made with, 1,221,062
—, —, primary, depolarizer for, made with, 1,148,152; Re-14,051
—, —, storage, depolarizer for, made with, 1,148,152; Re-14,051
—, beech-wood creosote made with, 1,199,271; Re-14,388
—, beer made with, 1,235,231
—, beer wort, sterilization of, using, 1,250,079
—, benzaldehyde made with, 1,284,887; 1,321,959
—, benzene, made with, 1,516,756
—, —, catalyst for the mfr. of, made with, 1,214,204
—, —, cotton seedcake, recovery from of with, 1,277,895
—, —, explosive mixtures of and, 1,143,623
Air, benzene, sulfating of using, 1,159,032; 1,159,033
—, benzine, explosive mixtures of and, 1,143,623
—, benzoic acid made with, 1,284,887; 1,284,888; 1,285,117; 1,336,182; 1,374,722
—, $\Delta^{8}.8'$-bi(7-acenaphthenone) made with, 1,439,500
—, bismuth made using, 1,144,402; 1,146,373; 1,163,286; 1,182,320; 1,188,705
—, bismuth oxide, absorbent, made with, 1,520,305
—, —, catalyst, made with, 1,520,305
—, bituminous oil distilled using, 1,247,671
—, blast furnace, operating of using, 1,518,854
—, bleaching using, 1,163,438
—, bone black, revivifying of using, 1,184,397
—, bread made with, 1,143,413; 1,203,361
—, brick, artificial, cutting of, using, 1,494,003
—, burning in hydrogen atmosphere to produce nitrogen, 1,384,428
—, butter substitute made with, 1,190,369
—, butyraldehyde made with, 1,517,968
—, butyric acid made with, 1,517,968
—, cacoa oil refined by treatment with, 1,386,527
—, cadmium made using, 1,144,402; 1,146,373; 1,163,286; 1,182,320; 1,188,705
—, calcium made with, 1,150,787
—, calcium arsenate made with, 1,415,323
—, calcium manganate made with, 1,318,891
—, calcium permanganate made with, 1,318,891
—, calcium sulfate made with, 1,163,286
—, calcium sulfite made with, 1,503,319
—, calcium urea phosphate made with, 1,208,650
—, caoutchouc, synthetic, made with, 1,185,654
—, carbazol, purified with, 1,324,717
—, carbonate ore, treatment of, using, 1,210,724
—, carbon made with, 1,155,419
—, carbon absorptive, made with, 1,497,543; 1,497,544
—, carbonate ore, flotation of using, 1,483,270
—, carbon, decolorizing, made with, 1,502,592; 1,504,730
—, —, —, revivifying of using, 1,184,397
—, —, ferro-chromium, removal from of, using, 1,481,747
—, carbon dioxide made with, 1,150,337; 1,154,171; 1,154,172; 1,167,755; 1,200,805; 1,241,919; 1,241,920; 1,284,888; 1,285,117; 1,287,472; 1,489,741; 1,494,735; 1,504,730
—, carbon dioxide in, apparatus for removing, 1,379,221
—, carbon dioxide, gas, removal from of, using, 1,154,145
—, —, removal of from, 1,169,371
—, —, —, apparatus for, 1,141,266; 1,212,456; 1,213,796
—, —, —, calcium hydroxide for, 1,212,456
—, —, —, castor oil, sulfonated, for, 1,213,796
—, —, —, potassium carbonate for, 1,141,266
—, —, —, process for, 1,141,266; 1,212,456; 1,213,796
—, —, —, sodium carbonate for, 1,141,266
—, —, —, sodium hydroxide for, 1,212,456
—, carbon dioxide in, removing, barium peroxide for, 1,379,221
—, carbon dioxide as constituent of, 1,218,584

Air, carbon monoxide made with, 1,420,209; 1,514,912
—, carbon monoxide, absorption of, using, 1,207,968
—, —, gas, removal from of using, 1,154,145; 1,207,968
—, —, hydrogen, mixture of and, made with, 1,228,818
—, —, —, removal from of, using, 1,366,176
—, carbon monoxide oxidized using, 1,345,323
—, carbon monoxide removing, 1,379,221
—, carbon tetrachloride, cotton seed cake, recovery from of with, 1,277,895
—, carbonyl chloride made with, 1,360,312
—, carbonyl chloride from carbon, chlorine and, 1,360,312
—, carburetting, apparatus for, 1,385,412
—, case hardening process using, 1,480,230
—, castor oil for cooling during compression of, 1,320,167
—, catalyst, bismuth oxide as, made with, 1,520,305
—, —, chromium oxide as, made with, 1,520,305
—, —, cobalt as, occluded gas removed from using, 1,127,911
—, —, copper oxide as, made with, 1,520,305
—, —, fullers earth as, occluded gas removed from using, 1,127,911
—, —, infusorial earth as, occluded gas removed from using, 1,127,911
—, —, iron oxides as, made with, 1,520,305
—, —, kieselguhr as, occluded gas removed from using, 1,127,911
—, —, lead oxide as, made with, 1,520,305
—, —, manganese oxide as, made with, 1,519,035; 1,520,305
—, —, nickel as, occluded gas removed from using, 1,127,911
—, —, nickel oxide as, made with, 1,520,305
—, —, platinum as, occluded gas removed from using, 1,127,911
—, —, pumice as, occluded gas removed from using, 1,127,911
—, —, thorium oxide as, made with, 1,520,305
—, —, vanadium oxide as, made with, 1,520,305
—, catalyst for the mfr. of acetaldehyde made with, 1,375,345
—, catalyst for the mfr. of ammonia made with, 1,152,930; 1,206,155; 1,491,588
—, catalyst for the mfr. of benzene made with, 1,214,204
—, catalyst for the mfr. of hydrocarbon, benzene, made with, 1,214,204
—, catalyst for the mfr. of nitrogen oxides made with, 1,207,706
—, catalyst for the mfr. of toluene made with, 1,214,204
—, catalyst for the mfr. of, xylene made with, 1,214,204
—, cellulose, oxidation of using, 1,520,885
—, cellulose acetate made with, 1,494,816; 1,494,830
—, cellulose soda waste gases constituent, 1,345,220
—, cellulose sulfate waste gases constituent, 1,345,220
Air, cellulose sulfite liquor, treatment of with, 1,236,948
—, cellulose sulfite liquor treated with, 1,149,420; 1,284,739; 1,284,740
—, cement, molded using, 1,212,838
—, 2-chlor-ethanol made with, 1,496,675
—, chloride, removal of from, apparatus for, 1,221,505
—, —, —, calcium hydroxide for, 1,221,505
—, —, —, process for, 1,221,505
—, chlorine made with, 1,506,104; 1,512,225; 1,512,226
—, chlorine in, removing, 1,379,221
—, chromium oxide, absorbent, made with, 1,520,305
—, —, catalyst, made with, 1,520,305
—, chrysenequinone oxidized using, 1,423,980
—, clarifying, apparatus for, 1,371,205
—, cleaning of, alloy for, 1,515,949
—, —, antimony, lead alloy contg., for, 1,515,949
—, —, apparatus for, 1,515,949
—, —, device for, 1,428,950
—, —, lead alloy, antimony in, for, 1,515,949
—, —, metal for, 1,515,949
—, —, process for, 1,198,045; 1,198,046; 1,515,949
—, —, steel wool for, 1,515,949
—, —, zinc chloride for, 1,515,949
—, coal gas, water gas, mixture of and, made with, 1,476,235
—, coating, drying of using, 1,186,477
—, cobalt made with, 1,146,373; 1,192,037; 1,230,143
—, coke oven gas, hydrogen sulfide, removal of from, using, 1,516,915
—, composition of, 1,218,584
—, compressed, airship engines operated by, 1,423,987
—, —, coal blasted with, 1,422,874
—, —, explosive use of, 1,422,874
—, —, storage of, apparatus for, 1,376,359
—, —, torpedo, driving of using, 1,154,609
—, concrete, artificial, cutting of, using, 1,494,003
—, —, molded using, 1,212,838
—, conditioning of, apparatus for, 1,305,518; 1,374,689
—, copal, recovery of using, 1,398,438
—, copper made using, 1,144,402; 1,146,373; 1,150,787; 1,163,286; 1,178,081; 1,182,320; 1,183,086; 1,188,705; 1,192,037; 1,480,059
—, copper, heat treatment of, using, 1,502,857
—, —, refining of, using, 1,204,927
—, copper carbonate ore, concentration of using, 1,477,476
—, copper ore, concentration of using, 1,477,476
—, —, flotation of using, 1,483,270
—, —, sulfating of using, 1,159,032; 1,159,033
—, copper oxide, absorbent, made with, 1,520,305
—, —, catalyst, made with, 1,520,305
—, copper oxide ore, concentration of using, 1,477,476
—, —, flotation of using, 1,483,270
—, copper silicate, concentration of using, 1,477,476
—, copper sulfate, made with, 1,150,787
—, copper sulfate, aluminum compounds, removal of from, using, 1,503,229

Air, copper sulfate, arsenic compounds, removal of from, using, 1,503,229
—, —, iron compounds, removal of from, using, 1,503,229
—, copper sulfide ore, concentration of using, 1,477,476
—, —, flotation of using, 1,180,089; 1,483,270
—, copper(ic) oxide made with, 1,164,838
—, copper(ous) chloride, treatment of with, 1,198,519
—, cotton, bleaching of, using, 1,163,438
—, —, degreasing of, using, 1,234,732
—, —, dyeing of, using, 1,234,732
—, —, mercerized, fabric, treatment of using, 1,515,691
—, —, fixing of, using, 1,234,732
—, —, mordanting of, using, 1,234,732
—, —, soaping of, using, 1,234,732
—, —, treatment of using, 1,234,732
—, cotton fabric, treatment of using, 1,515,691
—, cream, artificial, made with, 1,190,369
—, creosote made with, 1,199,271; Re-14,388
—, crude oil for cooling during compression of, 1,320,167
—, cyanides made with, 1,206,155; 1,256,272; 1,256,273
—, cylinder oil made with, 1,165,877
—, density of, apparatus for, indicating, 1,326,432
—, de-oxygenated, regenerating, barium peroxide for, 1,379,221
—, 9.9′-diacetylamino-$\Delta^{2,2'}$-*peri*-naphthothiopyran-3(2)-one made with, 1,498,913
—, diamond, polishing of, using, 1,214,009
—, *a*-dichlor-ethane made with, 1,496,675
—, diffusing disinfectants into, 1,358,928
—, dimethyl sulfate made with, 1,401,693
—, 2.4-dinitrophenol made with, 1,320,077
—, diphenic acid made with, 1,423,980
—, dry, sulfur burned in, 1,384,566
—, drying of, alkali hydroxide for, 1,169,371
—, —, apparatus for, 1,169,371; 1,203,941; 1,221,505; 1,282,686; 1,409,364
—, —, calcium chloride for, 1,169,371; 1,215,222; 1,221,505; 1,282,686; 1,430,538
—, —, potassium hydroxide for, 1,169,371
—, —, process for, 1,169,371; 1,203,941; 1,215,222; 1,221,505; 1,481,907
—, —, sodium hydroxide for, 1,169,371
—, —, sulfates, anhydrous, for, 1,169,371
—, —, sulfuric acid for, 1,169,371
—, dust separation from, 1,405,613
—, dyestuff made with, 1,247,475; 1,251,368; 1,251,369; 1,280,648; 1,299,070; 1,518,847
—, dyestuff, waste liquor contg., treatment of, using, 1,242,676
—, earths, sulfating of using, 1,159,032; 1,159,033
—, embalming with, 1,318,957
—, enzymes, altering characteristics of, using, 1,250,079
—, epilepsy, compound for treatment of, made with, 1,205,138
—, esters made with, 1,517,968
—, ether detected in, apparatus for, 1,326,432
—, ether, explosive mixtures of and, 1,143,623
—, ethyl alcohol, explosive mixtures of and, 1,143,623
Air, ethyl alcohol made with, 1,273,392; 1,284,739; 1,284,740
—, ethyl methyl ketone made with, 1,497,817
—, *N*-ethyl-phthalimide made with, 1,450,678
—, explosive, gelatinized, effect on rate of detonation of, 1,186,065
—, fat, ozone, treatment with of using, 1,180,372
—, —, sterilization of, using, 1,250,079
—, fatty acids made with, 1,516,720; 1,517,968
—, ferments, altering characteristics of, using, 1,250,079
—, ferro-chromium, carbon, removal of from, using, 1,481,747
—, —, refining of using, 1,481,747
—, ferro-phosphorus made with, 1,220,416
—, ferro-silicon made with, 1,231,260; Re-14,547
—, fertilizer made with, 1,161,473; 1,280,650; 1,514,912
—, fibrous minerals, separating of, using, 1,243,096
—, filament, artificial, cellulose acetate, hollow, made with, 1,487,807
—, —, —, cellulose nitrate, hollow, made with, 1,487,807
—, —, —, cuprammonium cellulose, hollow, made with, 1,487,807
—, —, —, gelatin, hollow, made with, 1,487,807
—, —, —, hollow, made with, 1,487,807
—, —, —, viscose, hollow, made with, 1,487,807
—, filter for, 1,443,134
—, filtering, device for, 1,375,422
—, fireproofing using, 1,346,287
—, fish oil, for cooling during compression of, 1,320,167
—, flavoring compounds made with, 1,517,968
—, flotation with, 1,426,596
—, flotation process using, 1,180,089; 1,232,772; 1,350,364; 1,483,270
—, flour bleached with, 1,184,295
—, flour treated with, 1,184,295
—, fluoranthenequinone oxidized using, 1,423,980
—, food product, sterilization of, using, 1,250,079
—, formaldehyde made with, 1,213,740; 1,392,886; Re-15,789; 1,517,968
—, formates made with, 1,206,155; 1,256,272; 1,256,273
—, formic acid made with, 1,392,886; Re-15,789
—, fructose, oxidation of using, 1,520,885
—, fruit, desiccating of, with, 1,259,410
—, —, preserving of, with, 1,259,410
—, —, sterilization of, using, 1,250,079
—, fruit essences made with, 1,517,968
—, fruit juice, sterilization of, using, 1,250,079
—, fuel, Diesel engine, made with, 1,191,072
—, —, gaseous, made with, 1,215,700
—, —, —, hydrogen sulfide, removal of from using, 1,516,915
—, —, —, purification of using, 1,514,889
—, fullers earth, revivifying of using, 1,184,397
—, fumes from, collecting, 1,371,205
—, fume separation from, 1,405,613
—, fumigating using, 1,250,079
—, furs, preserving of, using, 1,250,079
—, gas made with, 1,189,638
—, gas, carbon monoxide, removal of from using, 1,207,968
—, —, illuminating, made with, 1,172,925

Air, gas, sulfur, recovery of from, using, 1,510,342
—, gasolene made with, 1,479,833; 1,494,375
—, gasolene, natural gas, butane, removal of from, using, 1,482,933
—, —, cotton seed cake, recovery from of with, 1,277,895
—, —, natural gas, ethane, removal of from, using, 1,482,933
—, —, —, methane, removal from of using, 1,482,933
—, —, —, pentane, removal of from using, 1,482,933
—, —, —, propane, removal of from using, 1,482,933
—, —, recovery of from, apparatus for, 1,264,479
—, glands, sterilization of, using, 1,250,079
—, glycerides for cooling during compression of, 1,320,167
—, glycerol for cooling during compression of, 1,320,167
—, glycerol distilled with, 1,318,533
—, glycollic acid made with, 1,520,885
—, gold production of using, 1,144,402; 1,146,373; 1,150,787; 1,178,081; 1,181,077; 1,182,320; 1,183,086; 1,188,705; 1,192,037; 1,198,086; 1,243,976
—, golf ball made with, 1,182,605
—, grain, desiccating of, with, 1,259,410
—, —, preserving of, with, 1,259,410
—, grease made with, 1,189,638
—, grease, ozone, treatment with of using, 1,180,372
—, guns, recovery of using, 1,398,438
—, gutta percha vulcanized using, 1,213,905
—, heat insulator, 1,301,675
—, helium as constituent of, 1,218,584
—, helium, separation of from, alundum diffusion partition for, 1,496,757
—, —, —, ammonia for, 1,496,757
—, —, —, apparatus for, 1,496,757
—, —, —, carbon dioxide for, 1,496,757
—, —, —, felt diffusion partition for, 1,496,757
—, —, —, filtros diffusion partition for, 1,496,757
—, —, —, paper, blotting, diffusion partition for, 1,496,757
—, —, —, process for, 1,496,757
—, —, —, steam for, 1,496,757
—, —, —, wood pulp diffusion partition for, 1,496,757
—, herbs, sterilization of, using, 1,250,079
—, hexamethylenetetramine made with, 1,408,826
—, hops, sterilization of, using, 1,250,079
—, hydrocarbon, aromatic, made with, 1,516,756
—, —, benzene, catalyst for the mfr. of, made with, 1,214,204
—, —, cracking of using, 1,183,457
—, —, fluorescence removed from using, 1,158,205
—, —, oxidation of using, 1,520,885
—, hydrocarbons as constituent of, 1,218,584
—, hydrochloric acid made with, 1,415,323; 1,420,209; 1,500,289
—, hydrochloric acid, removal of from, apparatus for, 1,141,266
Air, hydrofluoric acid, phosphoric acid, removal from of, using, 1,487,205
—, hydrogen made using, 1,152,196; 1,152,197; 1,172,908; 1,172,925; 1,200,805; 1,225,262; 1,225,263; 1,503,319; 1,504,730
—, hydrogen, carbon monoxide, mixture of and, made with, 1,228,818
—, —, —, removal of from, using, 1,366,176
—, —, nitrogen, mixture of and, made with, 1,123,394; 1,390,200
—, —, separation of from, alundum diffusion partition for, 1,496,757
—, —, —, ammonia for, 1,496,757
—, —, —, apparatus for, 1,496,757
—, —, —, carbon dioxide for, 1,496,757
—, —, —, felt diffusion partitition for, 1,496,757
—, —, —, filtros diffusion partition for, 1,496,757
—, —, —, paper, blotting, diffusion partition for, 1,496,757
—, —, —, process for, 1,496,757
—, —, —, steam for, 1,496,757
—, —, —, wood pulp diffusion partition for, 1,496,757
—, hydrogen dioxide made with, 1,138,519; 1,138,520
—, hydrogen sulfide made with, 1,243,681; 1,494,735
—, hydrogen sulfide, coke oven gas, removal from of using, 1,516,915
—, —, fuel, gaseous, removal from of using, 1,516,915
—, —, illuminating gas, removal from of using, 1,516,915
—, hydrogen sulfide, removal of from, 1,379,221
—, —, —, apparatus for, 1,213,796
—, —, —, castor oil, sulfonated, for, 1,213,796
—, —, —, process for, 1,213,796
—, illuminating gas made with, 1,160,908; 1,215,700
—, illuminating gas, hydrogen sulfide, removal of from using, 1,516,915
—, indanthrene made with, 1,451,270; 1,509,846
—, indigoid dye made with, 1,133,031
—, infusorial earth, revivifying of using, 1,184,397
—, insulation, electric, made with, 1,159,257; 1,183,423
—, —, heat, made with, 1,162,450; 1,228,485
—, iodic acid made with, 1,519,381
—, iodine pentoxide made with, 1,519,381
—, iron, electrolytic, made with, 1,516,326
—, —, molten, treatment of, using, 1,484,465
—, —, pig, made with, 1,242,442
—, iron production of using, 1,144,402; 1,146,373; 1,150,787; 1,163,286; 1,188,705; 1,360,711; 1,512,262
—, —, tin, removal from of, using, 1,514,443
—, —, wrought, made with, 1,360,711
—, iron(ic) ammonium sulfate made with, 1,477,965
—, iron(ic) arsenate made with, 1,146,373
—, iron(ic) arsenite made with, 1,146,373
—, iron chloride made with, 1,147,832
—, iron(ic) chloride made with, 1,185,902
—, iron compounds, copper sulfate, removal from of, using, 1,503,229
—, iron(ic) hydroxide made using, 1,327,061

Air, iron ore, agglomerating of using, 1,166,903
—, iron ore smelted with, 1,283,500
—, iron oxide made with, 1,503,319
—, iron oxide, absorbent, made with, 1,520,305
—, iron(ic) oxide made with, 1,146,373; 1,490,546; 1,501,873
—, —, catalyst, made with, 1,520,305
—, iron oxide castings made with, 1,163,467
—, iron oxide pigment made with, 1,496,605; 1,496,606; 1,496,607
—, iron sponge made with, 1,360,711
—, iron(ic) sulfate made with, 1,477,965
—, iron(ous) sulfate made with, 1,489,417; Re-15,973
—, iron(ous) sulfide, action on of, 1,287,634
—, kerosene made with, 1,479,833; 1,494,375
—, ketones made with, 1,497,817; 1,504,731; 1,517,968
—, krypton as constituent of, 1,218,584
—, laminated material, separating of, using, 1,243,096
—, lamp, electric, cleaning of, using, 1,237,653
—, —, —, filament for, annealing of using, 1,180,066
—, —, mercury vapor, made with, 1,244,121
—, —, metal vapor, made with, 1,244,121
—, larvae, killing of, using, 1,250,079
—, lead, production of using, 1,144,402; 1,146,373; 1,182,320; 1,188,705; 1,192,037
—, —, red, made with, 1,482,327
—, —, white made with, 1,131,144; 1,141,177; 1,144,701; 1,163,052; 1,196,595
—, lead arsenate made with, 1,415,323
—, lead oxide made with, 1,156,079
—, lead oxide, absorbent, made with, 1,520,305
—, —, catalyst, made with, 1,520,305
—, lead sulfate made with, 1,175,146; 1,187,949; 1,495,410
—, lead sulfate, basic, made with, 1,187,949; 1,187,950; 1,225,296
—, lead sulfide ore, flotation of using, 1,180,089
—, lignite distillate, fluorescence removed from using, 1,158,205
—, linen, bleaching of, using, 1,163,438
—, linseed oil, recovery of using, 1,398,438
—, —, treatment of using, 1,482,483
—, liquid, absorbent for, mfr. of, bast for, 1,473,994
—, —, —, —, bran for, 1,473,994
—, —, —, —, cotton for, 1,473,994
—, —, —, —, excelsior for, 1,473,994
—, —, —, —, hemp for, 1,473,994
—, —, —, —, jute for, 1,473,994
—, —, —, —, linen for, 1,473,994
—, —, —, —, paper for, 1,473,994
—, —, —, —, peat for, 1,473,994
—, —, —, —, process for, 1,473,994
—, —, —, —, resin for, 1,473,994
—, —, —, —, rope for, 1,473,994
—, —, —, —, sawdust for, 1,473,994
—, —, —, —, soap for, 1,473,994
—, —, —, —, sodium bicarbonate for, 1,473,994
—, —, —, —, sodium chloride for, 1,473,994
—, —, —, —, soot for, 1,473,994
—, —, —, —, string for, 1,473,994
—, —, —, —, sugar for, 1,473,994
—, —, —, —, sugar, castor, for, 1,473,994
Air, liquid, absorbent for, mfr. of, wood for, 1,473,994
—, —, —, —, wool for, 1,473,994
—, —, —, —, yeast for, 1,473,994
—, —, ammonia made with, 1,490,627
—, —, argon obtained from, 1,501,415
—, —, argon from, apparatus for, 1,257,470
—, —, blasting with, fuses for, mfr. of, 1,424,487
—, —, blasting cartridge made with, 1,154,770; 1,157,270; 1,219,645; 1,226,833; 1,486,492; 1,517,294; 1,517,295
—, —, blasting cartridge exploded with, 1,424,488
—, —, blasting charge contg., 1,440,041
—, —, calcium chloride made with, 1,153,502
—, —, carbon dioxide, removal of from, process for, 1,152,044; 1,152,119; 1,152,120
—, —, cooling with, 1,426,602
—, —, distillation of, apparatus for, 1,510,793
—, —, explosive contg., 1,131,994; 1,375,243; 1,397,826; 1,406,121; 1,408,056; 1,424,488; 1,431,711; 1,496,914
—, —, explosive cartridge for, 1,441,957
—, —, fractional distillation of, apparatus for, 1,471,832; 1,471,833
—, —, —, process for, 1,471,832; 1,471,833
—, —, —, thermodynamic relations for, 1,471,832; 1,471,833
—, —, fractionation of, process for, 1,163,423
—, —, hair carroted with, 1,419,754
—, —, helium, neon, removal from of, using, 1,191,495
—, —, leather packing for apparatus for making of, 1,179,185
—, —, luminescent tube, neon, made with, 1,125,476; 1,189,664
—, —, mfr. of, air for, 1,205,477; 1,205,478
—, —, —, aluminum for, 1,205,477; 1,205,478
—, —, —, apparatus for, 1,123,588; 1,152,044; 1,152,119; 1,152,120; 1,199,700; 1,199,701; 1,205,477; 1,205,478
—, —, —, calcium chloride for, 1,152,044; 1,152,119; 1,152,120
—, —, —, calcium oxide for, 1,152,044; 1,152,119; 1,152,120
—, —, —, carbon dioxide for, 1,205,477; 1,205,478
—, —, —, nitrogen monoxide for, 1,205,477; 1,205,478
—, —, —, process for, 1,152,044; 1,152,119; 1,152,120; 1,199,700; 1,199,701; 1,205,477; 1,205,478
—, —, —, sodium hydroxide for, 1,152,044; 1,152,119; 1,152,120
—, —, neon, helium, removal of from, using, 1,191,495
—, —, —, nitrogen, removal of from, using, 1,125,476; 1,191,495
—, —, —, oxygen, removal of from, using, 1,191,495
—, —, —, purification of using, 1,189,664
—, —, nitrogen made with, 1,152,044; 1,152,119; 1,152,120; 1,157,959; 1,188,191; 1,215,957; 1,386,760; 1,492,063; 1,493,611; 1,501,415; 1,510,793; 1,518,255; 1,518,377
—, —, nitrogen, neon, removal from of, using, 1,125,476; 1,191,495
—, —, —, separation of from, apparatus for, 1,146,020; 1,257,470; 1,471,832; 1,471,833

Air, liquid, nitrogen oxides made with, 1,490,627
—, —, oxygen made with, 1,152,044; 1,152,119; 1,152,120; 1,153,502; 1,157,959; 1,188,191; 1,215,957; 1,492,063; 1,493,611; 1,501,415; 1,510,793; 1,518,255; 1,518,377
—, —, oxygen, neon, removal from of, using, 1,191,495
—, —, —, separation of from, apparatus for, 1,146,020; 1,257,470; 1,471,832; 1,471,833
—, —, rectifying, 1,420,802
—, —, separation of from, apparatus for, 1,519,428
—, —, —, process for, 1,519,428
—, —, water, removal of from, process for, 1,152,044; 1,152,119; 1,152,120
—, liquifaction of, apparatus for, 1,257,470
—, liquids, removal of from, 1,401,100; 1,401,101
—, liquified, airship engines operated by, 1,423,987
—, liquifying, 1,420,625; 1,426,461; 1,445,973
—, liquifying of, apparatus for, 1,326,961
—, —, calcium chloride for, 1,326,961
—, —, calcium hydroxide for, 1,326,961
—, —, nitrogen monoxide for, 1,326,961
—, —, potassium hydroxide for, 1,326,961
—, —, process for, 1,326,961
—, —, sodium hydroxide for, 1,326,961
—, litharge made with, 1,482,327
—, lithopone made with, 1,139,427; 1,140,354; 1,494,674
—, lubricant made with, 1,238,101; 1,477,635
—, magnesium, production of using, 1,150,787
—, maleic acid made with, 1,439,500; 1,515,299; 1,516,756; 1,517,968
—, maleic anhydride made with, 1,489,741; 1,516,756
—, malic acid made with, 1,517,968
—, manganese made with, 1,146,373; 1,230,143
—, manganese dioxide made with, 1,188,705; 1,247,278; 1,275,666
—, manganese oxide made with, 1,178,927
—, manganese oxide, absorbent, made with, 1,520,305
—, —, catalyst, made with, 1,520,305
—, match composition inflated with, 1,406,176
—, meat, sterilization of, using, 1,250,079
—, medicating, 1,409,364
—, medicine, sterilization of, using, 1,250,079
—, mercury made with, 1,146,373; 1,243,681
—, metal made with, 1,146,373; 1,150,787
—, metal, precious, made with, 1,198,011; 1,198,086
—, —, sulfating of, using, 1,159,032; 1,159,033
—, metal arsenates, production of using, 1,150,787
—, metal sulfates, production of using, 1,150,787
—, metal tellurates, production of using, 1,150,787
—, metatitanic acid made with, 1,489,417; Re-15,973
—, methane made with, 1,504,730
—, methane in, detecting, electrical apparatus for, 1,421,720
—, methyl alcohol made with, 1,392,886; Re-15,789
Air, methyl alcohol, explosive mixtures of and, 1,143,623
—, methyl anthracene purified with, 1,324,716; 1,324,717
—, methyl anthraquinone purified with, 1,324,716
—, *N*-methyl-phthalimide made with, 1,450,678
—, mica, separating of, using, 1,243,096
—, micro-organisms, altering characteristics of, using, 1,250,079
—, milk, sterilization of, using, 1,250,079
—, milk treated using, 1,175,876
—, minium made with, 1,482,327
—, molded article made using, 1,212,838
—, molybdenum filament, annealing of using, 1,180,066
—, mortar, artificial, cutting of, using, 1,494,003
—, naphthaldehydic acid made with, 1,439,500
—, naphthalene made with, 1,516,756
—, naphthalene, sulfating of using, 1,159,032; 1,159,033
—, naphthalic acid made with, 1,423,980
—, naphthalic anhydride made with, 1,439,500
—, naphthoquinones made with, 1,284,888; 1,285,117; 1,374,722
—, 1.4-naphthoquinone made with, 1,336,182; 1,489,741
—, neon as constituent of, 1,218,584
—, nickel made with, 1,146,373; 1,150,787; 1,230,143
—, nickel, catalyst, made with, 1,519,035
—, nickel alloy made with, 1,501,906
—, nickel oxide, absorbent, made with, 1,520,305
—, —, catalyst, made with, 1,520,305
—, niton as constituent of, 1,218,584
—, nitrates made with, 1,485,706
—, nitric acid made with, 1,150,786; 1,164,838; 1,193,796; 1,193,797; 1,193,798; 1,193,799; 1,193,800; 1,197,295; 1,237,884; 1,242,953; 1,243,524; 1,249,479; 1,252,976; 1,325,168; 1,334,590; 1,349,919; 1,378,271; 1,487,647; 1,517,727
—, nitric acid from, apparatus for, producing, 1,371,789
—, —, mfr. of, electrical process of, 1,453,435
—, nitric acid, sulfuric acid, separation from of with, 1,264,512
—, 2-nitroanisole made with, 1,325,168
—, 4-nitroanisole made with, 1,325,168
—, nitrobenzene made with, 1,320,077; 1,325,168
—, nitro compounds made with, 1,325,168
—, nitrogen made with, 1,123,763; 1,150,337; 1,154,171; 1,154,172; 1,154,145; 1,166,294; 1,189,638; 1,207,567; 1,241,919; 1,241,920; 1,253,534; 1,254,992; 1,272,181; 1,295,635; 1,349,756; 1,360,853; 1,420,625; 1,420,802; 1,426,461; 1,490,546; 1,503,319; 1,516,720; 1,518,126
—, nitrogen as constituent of, 1,218,584
—, nitrogen, fixation of using, 1,196,639; 1,206,155; 1,465,310; 1,477,664
—, —, hydrogen, mixture of and, made with, 1,123,394; 1,390,200
—, —, liquid, made from, 1,201,043; 1,201,044; 1,205,477; 1,205,478
—, —, oxygen free, made with, 1,254,992
—, —, removal of from, 1,304,027

Air, nitrogen from, preparing by burning in hydrogen atmosphere, 1,384,428
—, nitrogen from copper and, 1,312,842
—, nitrogen from process for, 1,287,472
—, nitrogen compound made with, 1,189,638
—, nitrogen dioxide made with, 1,150,786; 1,172,863; 1,193,796; 1,193,797; 1,193,798; 1,193,799; 1,193,800; 1,237,884; 1,253,534; 1,283,112
—, nitrogen monoxide, removal of from, apparatus for, 1,141,266
—, nitrogen oxides made with, 1,147,150; 1,173,524; 1,173,699; 1,194,606; 1,207,706; 1,207,707; 1,207,708; 1,242,953; 1,243,524; 1,249,479; 1,252,976; 1,253,534; 1,263,389; 1,263,390; 1,280,471; 1,334,590; 1,370,295; 1,477,664; 1,481,907; 1,485,706; 1,486,990; 1,495,563; 1,517,727
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,207,706
—, nitrogen oxides from, electrical process for mfr. 1,388,112
—, —, separation of from, apparatus for, 1,150,837
—, —, sulfuric acid, separation from of with, 1,264,512
—, nitrogen separation from, 1,445,973
—, nitrogen tetroxide made with, 1,150,786; 1,197,295; 1,237,884; 1,253,534
—, nitrogen trichloride made with, 1,367,530; 1,510,132
—, nitrogen trioxide made with, 1,150,786; 1,237,884; 1,253,534
—, nitrophenol made with, 1,320,077
—, *o*-nitrophenol made with, 1,320,077
—, nitrous acid made with, 1,172,863; 1,193,796; 1,237,884; 1,243,524; 1,252,976; 1,334,590
—, ocher substitute made with, 1,175,751
—, oil made with, 1,190,267; 1,504,730
—, oil, animal, treatment of using, 1,482,483
—, —, drying, recovery of using, 1,398,438
—, —, lubricating, for cooling during compression of, 1,320,167
—, —, ozone treatment with of using, 1,180,372
—, —, recovery of using, 1,398,438
—, —, sterilization of, using, 1,250,079
—, —, vegetable, treatment of using, 1,482,483
—, oil cloth made with, 1,176,982
—, oleic acid for cooling during compression of, 1,320,167
—, olive cured with, 1,265,130
—, ore smelted with, 1,283,500
—, ore, sulfating of using, 1,159,032; 1,159,033
—, —, treatment of, using, 1,210,724
—, ore sulfatized with, 1,266,732
—, osteomalacia, compound for treatment of, made with, 1,205,138
—, oxalic acid made with, 1,517,968; 1,520,885
—, oxide ore, flotation of using, 1,483,270
—, —, treatment of, using, 1,210,724
—, oxygen made with, 1,124,304; 1,155,045; 1,360,853; 1,394,955; 1,420,625; 1,420,802; 1,426,461
—, oxygen in, apparatus for determining, 1,338,967
—, oxygen, liquid, made from, 1,201,043; 1,201,044; 1,205,477; 1,205,478
Air, oxygen, separation of from, 1,273,929; 1,295,635; 1,304,027; 1,445,973
—, —, —, ammonium sulfite for, 1,295,635
—, —, —, hydrogen for, 1,349,756
—, oxygen as constituent of, 1,218,584
—, oxygen-enriched, furnaces blown with, 1,445,973
—, —, mfr. of, apparatus for, 1,485,745
—, —, —, process for, 1,485,745
—, ozone made with, 1,218,817; 1,264,360
—, ozone as constituent of, 1,218,584
—, ozonized, fruit, preserving of, using, 1,215,254
—, —, lead, white, made with, 1,325,960
—, —, mfr. of, apparatus for, 1,130,827; 1,239,515
—, —, —, process for, 1,239,515
—, —, meat, preserving of, using, 1,215,254
—, —, offsetting (in printing) prevented by, 1,388,418
—, —, sulfur extraction by, 1,364,573
—, —, vegetable, preserving of, using, 1,215,254
—, —, wood dried with, 1,456,809
—, —, *see also Ozone; Ozonized air*
—, ozonizing, apparatus for, 1,396,222
—, paint made with, 1,292,907; 1,292,908; 1,495,410
—, paint, recovery of using, 1,398,438
—, paracoumarone, recovery of using, 1,398,438
—, paraffin, fluorescence removed from using, 1,158,205
—, —, oxidation of using, 1,520,885
—, 3-pentanone made with, 1,497,817
—, petroleum distillate, fluorescence removed from using, 1,158,205
—, phenanthraquinone purified with, 1,324,716
—, phenanthrene purified with, 1,324,716; 1,324,717
—, 9.10-phenanthrenediol oxidized using, 1,423,980
—, phenanthrenequinone oxidized using, 1,423,980
—, phenol aldehyde condensate discolored by, 1,345,695
—, *N*-phenyl phthalimide made with, 1,450,678
—, phosphates made with, 1,154,145
—, phosphorates, organic, made with, 1,205,138
—, phosphoric acid made with, 1,142,371; 1,154,145; 1,242,987; 1,242,988; 1,497,173; 1,497,727
—, phosphoric acid, hydrofluoric acid, removal of from, using, 1,487,205
—, phosphorites, organic, made with, 1,205,138
—, phosphorus oxides made with, 1,154,145
—, phosphorus pentoxide made with, 1,142,371; 1,167,755; 1,242,987; 1,242,988; 1,497,173; 1,497,727
—, phthalaldehyde, made with, 1,516,756
—, phthalaldehyde acid made with, 1,516,756
—, phthalic acid made with, 1,284,888; 1,285,117; 1,336,182; 1,439,500; 1,516,756
—, phthalic anhydride made with, 1,284,888; 1,285,117; 1,336,182; 1,374,722; 1,444,068; 1,488,239; 1,489,741; 1,516,756
—, phthalimide made with, 1,450,678; 1,488,239
—, picenequinone oxidized using, 1,423,980
—, picric acid made with, 1,320,077

Air, pigment made with, 1,150,863; 1,175,146; 1,175,751; 1,420,985; 1,489,417; Re-15,973; 1,495,410; 1,501,873
—, plaster, artificial, cutting of, using, 1,494,003
—, plastic made with, 1,398,438; 1,487,957
—, plastic, molded, using, 1,212,838
—, platinum made with, 1,243,681
—, platinum group metals, production of using, 1,150,787
—, porphyry ore, flotation of using, 1,483,270
—, potassium carbonate made with, 1,504,730
—, potassium chloride made with, 1,504,730
—, potassium compounds made with, 1,514,912
—, potassium manganate made with, 1,318,891
—, potassium permanganate made with, 1,318,891
—, potassium sulfate made with, 1,136,549; 1,164,838; 1,504,730
—, pre-heating furnace, construction of, 1,518,258
—, —, mfr. of, carbon for, 1,518,258
—, —, —, carbon, iron alloy contg., for, 1,518,258
—, —, —, chromium for, 1,518,258
—, —, —, chromium iron alloy contg., for, 1,518,258
—, —, —, manganese for, 1,518,258
—, —, —, manganese, iron alloy contg., for, 1,518,258
—, —, —, silicon for, 1,518,258
—, —, —, silicon, iron alloy contg., for, 1,518,258
—, producer gas made with, 1,223,242; 1,247,671
—, propionaldehyde made with, 1,517,968
—, propionic acid made with, 1,517,968
—, purification of, apparatus for, 1,379,221
—, —, barium peroxide for, 1,379,221
—, —, composition for, 1,455,414
—, —, compounds equivalent to peracids for, 1,379,221
—, —, compounds equivalent to peroxides for, 1,379,221
—, —, electrical precipitation for, 1,442,619
—, —, lead peroxide for, 1,379,221
—, —, manganese dioxide for, 1,379,221
—, —, soda lime for,1,127,897
—, —, sulfuric acid for, 1,127,897
—, pyridine made with, 1,189,638
—, quinone made with, 1,489,741; 1,517,968
—, rachitic disease, compound for treatment of, made with, 1,205,138
—, radio-active, mfr. of, apparatus for, 1,175,533
—, —, —, paraffin for, 1,175,533
—, —, —, paraffin oil for, 1,175,533
—, —, —, process for, 1,175,533
—, —, —, silver for, 1,175,533
—, —, —, wax for, 1,175,533
—, radio-active metal salts made with, 1,175,146
—, rare earth salts made with, 1,175,146
—, record phonograph, made with, 1,513,120
—, refuse lamp black made with, 1,215,700
—, resins made with, 1,236,917
—, resin, artificial, made with, 1,517,968
—, —, recovery of using, 1,398,438
—, retenequinone oxidized using, 1,423,980
—, road tar made with, 1,155,442
—, roofing made with, 1,385,511
—, rosin, recovery of using, 1,398,438
—, rubber ozonide made with, 1,242,586
—, rubber substitute made with, 1,159,257
Air, rubber vulcanized using, 1,213,905; 1,229,724
—, sandarac, recovery of using, 1,398,438
—, sausage stuffing, sterilization of, using, 1,250,079
—, secretions, sterilization of, using, 1,250,079
—, seeds, sterilization of, using, 1,250,079
—, selenium, production of using, 1,182,320
—, separating into constituent gases, process for, 1,360,853
—, separation of oxygen from, magnetically, 1,364,136
—, serum, sterilization of, using, 1,250,079
—, sewage, treatment of, using, 1,129,682; 1,229,305; 1,247,543; Re-15,140
—, sewerage, aerating of, using, 1,491,277
—, shale distillate, fluorescence removed from using, 1,158,205
—, shale treated with hot, 1,396,173
—, shellac, drying of using, 1,186,477
—, shingle, fireproofing of, using, 1,346,287
—, silicon tetrachloride made with, 1,147,832
—, silk, artificial, fabric, treatment of using, 1,515,691
—, —, degreasing of, using, 1,234,732
—, —, degumming of using, 1,234,732
—, —, dyeing of using, 1,234,732
—, —, fixing of using, 1,234,732
—, —, mordanting of using, 1,234,732
—, —, soaping of using, 1,234,732
—, —, treatment of using, 1,234,732
—, silk worm cocoons, killing of, using, 1,250,079
—, silver, production of using, 1,144,402; 1,146,373; 1,178,081; 1,181,077; 1,182,320; 1,183,086; 1,188,705; 1,192,037; 1,198,086; 1,243,681; 1,243,976
—, silver sulfide ore, flotation of using, 1,180,089
—, smoke, detection of in, 1,516,608
—, soap inflated with, 1,414,015
—, sodium bicarbonate made with, 1,484,932
—, sodium carbonate made with, 1,154,145; 1,241,919; 1,241,920; 1,484,932
—, sodium cyanate made with, 1,241,919; 1,241,920
—, sodium manganate made with, 1,318,891
—, sodium nitrite made with, 1,253,534
—, sodium permanganate made with, 1,318,891
—, sodium sulfate made with, 1,136,549; 1,500,289
—, solide, separation of from, apparatus for, 1,519,428
—, —, —, process for, 1,519,428
—, solutions, removal of from, 1,357,946; 1,357,947
—, solvent, cotton seed cake, recovery from of with, 1,277,895
—, starch, oxidation of using, 1,520,885
—, steel made with, 1,360,711
—, steel, molten, treatment of, using, 1,484,465
—, sterilization using, 1,250,079
—, sterilization of, apparatus for, 1,203,941; 1,209,132; 1,215,222
—, —, calcium chloride for, 1,215,222
—, —, electrical precipitation for, 1,442,619
—, —, glass for, 1,209,132

Air, sterilization of, iron for, 1,209,132
—, sterilizing, ozone for, 1,423,704
—, —, phenol aldehyde condensate for, 1,209,132
—, —, process for, 1,203,941; 1,209,132; 1,215,222
—, —, silicon for, 1,209,132
—, —, ultra-violet ray for, 1,209,132
—, stone, artificial, cutting of, using, 1,494,003
—, strontium made with, 1,150,787
—, strontium manganate made with, 1,318,891
—, strontium permanganate made with, 1,318,891
—, stucco, artificial, cutting of, using, 1,494,003
—, succinic acid made with, 1,517,968
—, sugars, oxidation of using, 1,520,885
—, —, refining of, using, 1,510,809
—, sulfide ore, flotation of using, 1,180,089; 1,483,270
—, —, treatment of, using, 1,210,724
—, sulfites made with, 1,503,319
—, sulfur made with, 1,479,852; 1,507,105; 1,516,915
—, sulfur, gases, recovery from of, using, 1,510,342
—, sulfur compounds, removal of from, apparatus for, 1,213,796
—, —, —, castor oil, sulfonated, for, 1,213,796
—, —, —, process for, 1,213,796
—, sulfur dioxide made with, 1,136,549; 1,150,841; 1,168,046; 1,254,992; 1,337,561; 1,494,735; 1,503,319
—, sulfur dioxide, oxygen free, made with, 1,254,992
—, —, removal of from, apparatus for, 1,141,266
—, sulfur dioxide oxidized using, 1,345,323
—, sulfur mined with, 1,259,536
—, sulfur mining comprising use of compressed, 1,401,593
—, sulfur trioxide made with, 1,136,549; 1,204,141; 1,204,142; 1,204,143; 1,473,879; 1,498,168; 1,504,813; 1,518,043
—, sulfuric acid made with, 1,173,524; 1,204,142; 1,236,948; 1,363,918; 1,473,879; 1,477,965; 1,504,813
—, sulfuric acid, fuming, made with, 1,204,142
—, —, nitric acid removed from with, 1,264,512
—, —, nitrogen oxides removed from with, 1,264,512
—, tanning compound made with, 1,399,510; 1,421,722
—, tantalum filament, annealing of using, 1,180,066
—, tar made with, 1,215,700
—, tartaric acid, made with, 1,520,885
—, tellurium made with, 1,150,787; 1,182,320
—, textile, artificial, cellulose acetate, hollow, made with, 1,487,807
—, —, —, cellulose nitrate, hollow, made with, 1,487,807
—, —, —, cuprammonium cellulose, hollow, made with, 1,487,807
—, —, —, gelatin, hollow, made with, 1,487,807
—, —, —, hollow, made with, 1,487,807
—, —, —, viscose, hollow, made with, 1,487,807
—, —, degreasing of, using, 1,234,732
—, —, dyeing of using, 1,234,732
—, —, fixing of using, 1,234,732
Air, textile, mordanting of using, 1,234,732
—, —, soaping of using, 1,234,732
—, —, treatment of using, 1,234,732
—, thallium salts made with, 1,175,146
—, thorium oxide, absorbent, made with, 1,520,305
—, —, catalyst, made with, 1,520,305
—, tin made with, 1,146,373
—, tin, iron, removal of from, using, 1,514,443
—, tin oxide from, 1,202,886
—, tin refined using, 1,514,443
—, titanium chloride made with, 1,147,832
—, titanium dioxide made with, 1,489,417; Re-15,973
—, toluene, catalyst for the mfr. of, made with, 1,214,204
—, —, sulfating, of using, 1,159,032; 1,159,033
—, toluene oxidized using, 1,345,323
—, *N*-*m*-tolyl-phthalimide made with, 1,450,678
—, *N*-*o*-tolyl-phthalimide made with, 1,450,678
—, *N*-*p*-tolyl-phthalimide made with, 1,450,678
—, treating, apparatus for, 1,442,619
—, tung oil, polymerized, made with, 1,395,242
—, —, recovery of using, 1,398,438
—, tungsten made with, 1,212,426; 1,483,567
—, tungsten filament made with, 1,280,825
—, tungsten filament, annealing of using, 1,180,066
—, urea made with, 1,241,919; 1,241,920
—, vaccines, sterilization of, using, 1,250,079
—, vanadium oxide, absorbent, made with, 1,520,305
—, —, catalyst, made with, 1,520,305
—, vapor separated from, process for, 1,320,167
—, varnish made with, 1,159,257; 1,292,907; 1,292,908; 1,398,438
—, varnish, drying of using, 1,186,477
—, —, recovery of using, 1,398,438
—, vegetable, desiccating of, with, 1,259,410
—, —, preserving of with, 1,259,410
—, —, sterilization of using, 1,250,079
—, vegetable matter, sterilization of, using, 1,250,079
—, viscose filaments prepared with, 1,464,048
—, water, removal from of, 1,401,100; 1,401,101; 1,401,116; 1,442,348; 1,521,306
—, —, —, apparatus for, 1,213,796; 1,321,999; 1,416,632; 1,511,876
—, —, —, castor oil, sulfonated, for, 1,213,796
—, —, —, process for, 1,213,796
—, —, treatment of using, 1,229,305
—, water gas, coal gas, mixture of and, made with, 1,476,235
—, —, purification of using, 1,514,889
—, wood, fire-proofing of, using, 1,346,287
—, wood treated with steam and, 1,255,340
—, wool, degreasing of, using, 1,234,732
—, —, dyeing of using, 1,234,732
—, —, fixing of using, 1,234,732
—, —, mordanting of using, 1,234,732
—, —, soaping of using, 1,234,732
—, —, treatment of using, 1,234,732
—, xenon as constituent of, 1,218,584
—, xlyene, catalyst for the mfr. of, made with, 1,214,204
—, —, sulfating of using, 1,159,032; 1,159,033

Air, *N*-xylyl-phthalimide made with, 1,450,678
—, yeast revived with, 1,271,371
—, zinc production of using, 1,144,402; 1,146,373; 1,150,787; 1,150,841; 1,154,602; 1,163,286; 1,172,321; 1,182,320; 1,188,705; 1,192,037; 1,241,967
—, zinc oxide made with, 1,150,841; 1,172,321
—, zinc sulfate made with, 1,139,427; 1,140,354; 1,150,841; 1,494,674
—, zinc sulfide ore, flotation of using, 1,180,089
Air-ammonia mixture, formation, of apparatus for, 1,307,739
Air-bubbles, effect on ice mfr., 1,415,325
—, removing from solutions, 1,357,946; 1,357,947
Aircraft, doping of, process for, 1,309,454
—, fireproof dope for, alginate in, 1,321,708
—, —, alginic acid in, 1,321,708
—, —, ammonium phosphate in, 1,321,708
—, —, boric acid in, 1,321,708
—, —, cellulose, algin in, 1,321,708
—, —, cellulose acetate in, 1,321,708
—, —, cellulose nitrate in, 1,321,708
—, —, shellac in, 1,321,708
—, —, sodium tungstate in, 1,321,708
—, fireproofing, alginic acid for, 1,372,478
—, —, aluminum foil for, 1,309,453
—, —, ammonium phosphate for, 1,309,453
—, —, asbestos for, 1,372,478
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—, —, cellulose acetate for, 1,309,453
—, —, metal foil for, 1,309,453
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—, —, process for, 1,309,453
—, —, shellac for, 1,309,453
—, —, sodium acetate for, 1,309,453
—, —, sodium tungstate for, 1,309,453
—, —, zinc chloride for, 1,372,478
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—, gas-bag, mfr. of, 1,301,955
—, structural material for, aluminum, copper, iron, nickel, manganese, 1,346,192
—, woodwork, fireproofing of, process for, 1,309,453
—, *see also Aeronautics; Airplane; Aviation; Balloon; Balloonet*
Aircraft beam, mfr. of, adhesive for, 1,400,078
—, —, casein for, 1,400,078
—, —, copal for, 1,400,078
—, —, cord for, 1,400,078
—, —, cotton for, 1,400,078
—, —, cotton batting for, 1,400,078
—, —, duck for, 1,400,078
—, —, fabric for, 1,400,078
—, —, fibrous material for, 1,400,078
—, —, linen cord for, 1,400,078
—, —, paper for, 1,400,078
—, —, phenol aldehyde condensate for, 1,400,078
—, —, process for, 1,400,078
—, —, shellac for, 1,400,078
—, —, steel wire for, 1,400,078
Aircraft dope, 1,372,478
—, cellulose acetate in, 1,372,478
—, glue and shellac as, 1,372,478
Aircraft fabric, fireproofing of, process for, 1,309,453
—, linseed oil for coating, 1,327,707
Aircraft fabric, mfr. of, borax for, 1,327,707
—, —, casein for, 1,327,707
—, —, casein glue, for, 1,327,707
—, —, cork powder for, 1,327,707
—, —, formaldehyde for, 1,327,707
—, —, linseed oil for, 1,327,707
—, —, paper for, 1,327,707
—, —, potassium silicate for, 1,327,707
—, —, process for, 1,327,707
—, —, sodium silicate for, 1,327,707
—, —, tannic acid for, 1,327,707
—, —, varnish for, 1,327,707
—, —, wire for, 1,327,707
—, varnish for coating, 1,327,707
—, wire-reinforced, 1,442,323
Aircraft generator stream-line casing, mfr. of, cotton batting for, 1,433,730
—, —, duck for, 1,433,730
—, —, fabric for, 1,433,730
—, —, paper for, 1,433,730
—, —, phenol aldehyde condensate for, 1,433,730
—, —, process for, 1,433,730
Aircraft strut, mfr. of, adhesive for, 1,400,078
—, —, casein for, 1,400,078
—, —, cord for, 1,400,078
—, —, copal for, 1,400,078
—, —, cotton for, 1,400,078
—, —, cotton batting for, 1,400,078
—, —, duck for, 1,400,078
—, —, fabric for, 1,400,078
—, —, fibrous material for, 1,400,078
—, —, linen cord for, 1,400,078
—, —, paper for, 1,400,078
—, —, phenol aldehyde condensate for, 1,400,078
—, —, process for, 1,400,078
—, —, shellac for, 1,400,078
—, —, steel wire for, 1,400,078
Airio-wheel, mfr. of, process for, 1,163,756
—, *see also Pyrotechnic*
Airoform, see Bismuthoxyiodogallate
Airplane, camouflaging, 1,426,521
—, —, cellulose acetate used in, 1,426,521
—, coating for, celluloid for, 1,323,979
—, —, cellulose acetate and caoutchouc for, 1,431,845
—, —, gelatin for, 1,323,979
—, —, talc for, 1,323,979
—, covering, coated fabrics for, 1,394,890
—, —, fabricated, mfr. of, 1,426,626
—, dope for, 1,393,355
—, —, cellulose acetate in, 1,339,728
—, —, urea-formaldehyde condensate for preparing, 1,355,834
—, —, *see Airplane dope*
Airplane, "dope" applied to, process for, 1,309,454
—, *fabric for, see Airplane fabric,*
—, fireproofing, 1,427,941
—, *fireproofing of, see also Fireproofing*
—, fireproofing composition for, acetaldol in, 1,310,841
—, —, acetone in, 1,310,841
—, —, ammonium magnesium arsenate in, 1,310,841
—, —, ammonium magnesium phosphate in, 1,310,841

Airplane dope, fireproofing composition for, ammonium manganese arsenate in, 1,310,841
—, —, ammonium manganese phosphate in, 1,310,841
—, —, ammonium phosphate in, 1,310,841
—, —, benzene in, 1,310,841
—, —, benzine in, 1,310,841
—, —, calcium carbonate in, 1,310,841
—, —, cedar oil in, 1,310,841
—, —, cellulose acetate in, 1,310,841
—, —, copal in, 1,310,841
—, —, ethyl acetate in, 1,310,841
—, —, ivory black in, 1,310,841
—, —, magnesium carbonate in, 1,310,841
—, —, methyl acetate in, 1,310,841
—, —, methyl acetone in, 1,310,841
—, —, pennyroyal oil in, 1,310,841
—, —, resin in, 1,310,841
—, —, shellac in, 1,310,841
—, —, toluene in, 1,310,841
—, —, zinc oxide in, 1,310,841
—, fuel for, solid, mfr. of, process for, 1,262,808
—, —, *see also Fuel, liquid*
—, motor fuel for, 1,420,006; 1,420,007; 1,428,913
—, —, *see also Motor fuel*
—, motor generator set for, stream-line tail piece for, mfr. of, process for, 1,475,764
—, rubber coated with aluminum for mfr. of, 1,259,508
—, structural element for, mfr. of, process for, 1,473,842
—, varnish for, 1,393,355
—, —, *see also Airplane varnish*
—, visibility of, diminishing, cellulose ester solutions for, 1,426,521
—, wings for, applying coated fabrics to, 1,394,890
—, *see also Aircraft*
Airplane beam, mfr. of, duck for, 1,473,842
—, —, muslin for, 1,473,842
—, —, paper for, 1,473,842
—, —, phenol aldehyde condensate for, 1,473,842
—, —, process for, 1,473,842
Airplane bombs, explosive for, mfr. of, 1,462,753
Airplane cooling system, 1.2-butanediol used in, 1,213,368
—, 2.3-butanediol used in, 1,213,368
—, glycerol used in, 1,213,368
—, glycol used in, 1,213,368
—, polyglycols used in, 1,213,368
—, 1.2-propanediol used in, 1,213,368
Airplane covering, mfr. of, ammonium bichromate for, 1,497,167
—, —, sodium silicate for, 1,497,167
—, —, wire netting for, 1,497,167
Airplane covering material, mfr. of, airplane dope for, 1,519,239
—, —, albumen for, 1,519,239
—, —, apparatus for, 1,243,041; 1,243,654; 1,243,655; 1,519,239
—, —, asbestos for, 1,519,239
—, —, asbestos paper for, 1,519,239
—, —, balloon cloth for, 1,519,239
—, —, brass wire netting for, 1,243,041; 1,243,654; 1,243,655
Airplane covering material, mfr. of, bronze wire netting for, 1,243,041; 1,243,654; 1,243,655
—, —, casein for, 1,519,239
—, —, cellulose acetate for, 1,519,239
—, —, cellulose nitrate for, 1,243,041; 1,243,654; 1,519,239
—, —, copper for, 1,243,655
—, —, copper foil for, 1,243,654
—, —, copper wire netting for, 1,243,041; 1,243,654; 1,243,655
—, —, cotton fabric for, 1,519,239
—, —, glue, blood, for, 1,519,239
—, —, —, fish, for, 1,497,167
—, —, graphite for, 1,243,655
—, —, linen fabric for, 1,519,239
—, —, metal foil for, 1,243,041; 1,243,654
—, —, nickel for, 1,243,655
—, —, oil for, 1,243,654
—, —, phenol aldehyde condensate for, 1,519,239
—, —, process for, 1,243,041; 1,243,654; 1,243,655 1,497,167; 1,519,239
—, —, shellac for, 1,519,239
—, —, silk fabric for, 1,519,239
—, —, silver for, 1,243,654
—, —, silver foil for, 1,243,041; 1,243,654
—, —, steel wire netting for, 1,243,041; 1,243,654; 1,243,655
—, —, tin for, 1,243,654
—, —, tin foil for, 1,243,041; 1,243,654
—, —, tin salt for, 1,243,654
—, —, varnish for, 1,243,041; 1,243,654
—, —, wire netting for, 1,243,041; 1,243,654
—, —, wood veneer for, 1,519,239
Airplane dope, acetaldol in, 1,303,563
—, acetone in, 1,156,894; 1,303,563; 1,315,216; 1,320,290; 1,400,430; 1,469,839
—, airplane covering material made with, 1,519,239
—, airplane fabric made with, 1,325,363
—, alcohol in, 1,156,894; 1,303,563; 1,320,290
—, alum in, 1,273,213
—, ammonium hydroxide in, 1,273,213; 1,395,016
—, benzene in, 1,156,894; 1,303,563; 1,315,216; 1,320,290
—, benzine in, 1,320,290
—, benzyl alcohol in, 1,320,290
—, board, compound, made with, 1,344,962
—, boric acid in, 1,315,216; 1,320,290; 1,469,839
—, calcium chloride in, 1,400,430
—, celluloid in, 1,320,290; 1,400,430
—, celulose acetate in, 1,156,894; 1,303,563; 1,315,216; 1,320,290; 1,325,363; 1,400,430; 1,426,521
—, cellulose ester in, 1,156,894; 1,426,521
—, cellulose esters and chlorides in, 1,400,430
—, cellulose nitrate in, 1,315,216; 1,320,290; 1,325,363; 1,400,430; 1,469,839
—, diaphragm, sound reproducing, made with, 1,492,982
—, ethyl acetate in, 1,303,563
—, ethyl formate in, 1,303,563
—, ethyl methyl ketone in, 1,303,563
—, fireproof, 1,436,231

Airplane dope, fireproof, formula for, cellulose nitrate, ammonium-metal-phosphate or arsenate carbonates, solvents, 1,329,386
—, —, mfr. of, 1,315,216; 1,316,881
—, —, —, acetone for, 1,309,581
—, —, —, alcohol for, 1,309,581
—, —, —, amyl acetate for, 1,309,581
—, —, —, Bakelite for, 1,309,581
—, —, —, benzene for, 1,309,581
—, —, —, castor oil for, 1,309,581
—, —, —, cellulose acetate for, 1,309,581
—, —, —, Condensite for, 1,309,581
—, —, —, corn oil for, 1,309,581
—, —, —, ethyl acetate for, 1,309,581
—, —, —, formaldehyde for, 1,309,581
—, —, —, linseed oil for, 1,309,581
—, —, —, phenol for, 1,309,581
—, —, —, phenol aldehyde condensate, for 1,309,581
—, —, —, rape seed oil for, 1,309,581
—, formulas for, 1,329,386; 1,363,763; 1,426,521;
—, —, starch 1/16 oz., alum ½ oz., glue ½ oz., sodium silicate 6 oz., ammonium hydroxide 10 drops, water 5½ oz., 1,273,213
—, glue in, 1,273,213
—, hydrogen dioxide in, 1,469,839
—, ketone, commercial mixture in, 1,315,216
—, magnesium chloride in, 1,400,430; 1,469,839
—, mfr. of, acetic acid for, 1,363,763
—, —, acetone for, 1,315,216; 1,320,290; 1,329,386; 1,347,801; 1,363,763; 1,366,256; 1,388,827; 1,388,828; 1,440,178; 1,426,521; 1,488,608; 1,521,055; 1,521,056
—, —, acetyl-urea for, 1,355,834
—, —, alcohol for, 1,234,381; 1,320,290; 1,347,801; 1,363,763; 1,366,256; 1,388,825; 1,488,608; 1,496,198
—, —, alginate for, 1,312,708
—, —, alginic acid for, 1,312,708
—, —, alizarin red lake for, 1,426,521
—, —, aluminum hydroxide for, 1,426,521
—, —, aluminum powder for, 1,521,055; 1,521,056
—, —, ammonium chloride for, 1,388,824; 1,388,827
—, —, ammonium magnesium arsenate for, 1,329,386
—, —, ammonium magnesium phosphate for, 1,329,386
—, —, ammonium manganese arsenate for, 1,329,386
—, —, ammonium manganese phosphate for, 1,329,386
—, —, ammonium phosphate for, 1,312,708; 1,440,178
—, —, ammonium phosphate ($NH_4H_2PO_4$), for, 1,329,386
—, —, amyl acetate for, 1,329,386; 1,388,825; 1,388,827; 1,388,828
—, —, amyl alcohol for, 1,173,931; 1,363,763
—, —, antimony chloride, basic, for, 1,388,825; 1,388,828
—, —, antimony oxychloride for, 1,388,825; 1,388,828
—, —, antimony salts for, 1,388,824; 1,388,827
Airplane dope, mfr. of, antimony trichloride for, 1,388,824; 1,388,825; 1,388,827; 1,388,828
—, —, antimony triiodide for, 1,388,824; 1,388,827
—, —, beeswax for, 1,366,256
—, —, benzene for, 1,234,381; 1,315,216; 1,320,290; 1,329,386; 1,347,801; 1,363,763; 1,366,256; 1,388,827; 1,388,828; 1,488,608
—, —, benzine for, 1,320,290; 1,329,386
—, —, benzoyl-urea for, 1,355,834
—, —, benzyl acetate for, 1,440,178
—, —, benzyl alcohol for, 1,320,290; 1,339,728; 1,426,521; 1,440,178; 1,521,055; 1,521,056
—, —, *s*-bis-(hydroxymethyl)-urea for, 1,355,834
—, —, boric acid for, 1,312,708; 1,315,216; 1,320,290
—, —, bronze powder for, 1,521,055; 1,521,056
—, —, calcium carbonate for, 1,329,386
—, —, calcium chloride for, 1,440,178
—, —, camphor for, 1,234,381; 1,496,198
—, —, carbon bisulfide for, 1,388,824; 1,388,827
—, —, carbon tetrachloride for, 1,234,381; 1,388,824; 1,388,825; 1,388,827; 1,388,828
—, —, carvacrol for, 1,521,055; 1,521,056
—, —, carvone for, 1,521,055; 1,521,056
—, —, castor oil for, 1,329,386; 1,496,198
—, —, celluloid for, 1,320,290; 1,366,256; 1,388,825; 1,426,521
—, —, cellulose, algin, for, 1,312,708
—, —, celluose acetate for, 1,173,931; 1,312,708; 1,315,216; 1,320,290; 1,339,728; 1,347,801; 1,363,763; 1,388,824; 1,388,825; 1,388,827; 1,388,828; 1,426,521; 1,440,178; 1,488,608; 1,521,055; 1,521,056
—, —, cellulose butyrate for, 1,425,580
—, —, cellulose ester for, 1,366,256; 1,388,824; 1,388,827; 1,426,521; 1,521,055; 1,521,056
—, —, cellulose ether for, 1,366,256
—, —, cellulose formate for, 1,488,608
—, —, cellulose nitrate for, 1,312,708; 1,315,216; 1,320,290; 1,329,386; 1,388,825; 1,388,828; 1,440,178; 1,496,198
—, —, chlorine for, 1,234,381
—, —, chloroform for, 1,347,801; 1,388,824; 1,388,827; 1,388,828
—, —, cinnamon oil for, 1,496,198
—, —, copal for, 1,329,386
—, —, copper powder for, 1,521,055; 1,521,056
—, —, corn oil for, 1,388,828
—, —, cyclohexanone for, 1,339,728; 1,363,763
—, —, cyclopentanone for, 1,339,728
—, —, diacetone alcohol for, 1,440,178
—, —, dimethyl-cyclohexanone for, 1,363,763
—, —, dimethyl phthalate for, 1,363,763
—, —, ether for, 1,388,825; 1,496,198
—, —, ethyl acetate for, 1,329,386
—, —, ethyl acetoacetate for, 1,426,521; 1,521,055; 1,521,056
—, —, ethyl alcohol for, 1,173,931; 1,329,386; 1,388,827; 1,488,608
—, —, ethylidene diacetate for, 1,488,608
—, —, ethyl lactate for, 1,363,763
—, —, ethyl silicate for, 1,440,178
—, —, eugenol for, 1,426,521; 1,521,055; 1,521,056
—, —, formaldehyde for, 1,535,834
—, —, fusel oil for, 1,173,931

Airplane dope, mfr. of, gelatin for, 1,426,521
—, —, gutta percha for, 1,388,824; 1,388,827
—, —, hemp seed oil for, 1,388,828
—, —, "heptachlor-caoutchouc" for, 1,234,381
—, —, isoeugenol for, 1,426,521; 1,521,055; 1,521,056
—, —, ketone for, 1,366,256
—, —, ketone, commercial mixture, for, 1,315,216
—, —, lake, aluminum hydroxide, for, 1,426,521
—, —, —, barium, for, 1,426,521
—, —, —, red, for, 1,426,521
—, —, lampblack for, 1,426,521
—, —, lead chromate for, 1,521,056
—, —, linseed oil for, 1,388,825; 1,388,827; 1,388,828; 1,521,056
—, —, magnesium carbonate for, 1,329,386
—, —, methyl acetate for, 1,329,386; 1,363,763; 1,426,521; 1,440,178; 1,521,055; 1,521,056
—, —, methyl acetone for, 1,315,216
—, —, methyl alcohol for, 1,173,931; 1,388,827; 1,488,608
—, —, methyl, benzyl alcohol, for, 1,339,728
—, —, methyl-cyclohexanone for 1,363,763
—, —, magnesium phosphate for, 1,440,178
—, —, methyl phthalate for, 1,363,763
—, —, methyl silicate for, 1,440,178
—, —, naphthalene for, 1,496,198
—, —, ocher for, 1,426,521
—, —, oil for, 1,388,828
—, —, oil, drying, for, 1,388,827
—, —, —, semi-drying, for, 1,388,828
—, —, paraffin for, 1,366,256
—, —, paris blue for, 1,426,521
—, —, 2.4-pentanedione for, 1,363,763
—, —, Δ 4.2-pentenone for, 1,363,763
—, —, petroleum ether for, 1,234,381
—, —, pigment for, 1,426,521; 1,521,055; 1,521,056
—, —, poppy seed oil for, 1,388,828
—, —, potassium silicate for, 1,496,198
—, —, process for, 1,173,931; 1,234,381; 1,312,708; 1,329,386; 1,339,728; 1,347,801; 1,355,834; 1,363,763; 1,366,256; 1,388,824; 1,388,825; 1,388,827; 1,388,828; 1,426,521; 1,440,178; 1,488,608; 1,496,198; 1,521,055; 1,521,056
—, —, propylene chlorhydrin for, 1,440,178
—, —, pyridine for, 1,521,056
—, —, resin for, 1,329,386
—, —, rubber for, 1,234,381; 1,388,824; 1,388,827
—, —, rubber, plantation, for, 1,234,381
—, —, shellac for, 1,312,708; 1,329,386
—, —, sienna for, 1,426,521
—, —, sienna, burnt, for, 1,521,056
—, —, silicic acid for, 1,496,198
—, —, silicic acid ester for, 1,315,216
—, —, sodium silicate for, 1,496,198
—, —, sodium tungstate for, 1,312,708
—, —, steam for, 1,234,381
—, —, sunflower oil for, 1,388,828
—, —, tetrachlor-ethane for, 1,363,763
—, —, *a*-tetrachlor-ethane for, 1,488,608
—, —, *s*-tetrachlorethane for, 1,173,931; 1,339,728
—, —, thiourea for, 1,355,834
—, —, tin chloride for, 1,388,825
—, —, tin salts for, 1,388,824; 1,388,827
—, —, toluene for, 1,234,381; 1,329,386; 1,488,608
Airplane dope, mfr. of, triacetin for, 1,426,521; 1,521,055; 1,521,056
—, —, trichlor-phenol for, 1,440,178
—, —, tricresyl phosphate for, 1,315,216; 1,488,608
—, —, trinaphthyl phosphate for, 1,440,178
—, —, triphenyl borate for, 1,440,178
—, —, triphenyl phosphate for, 1,315,216; 1,320,290; 1,363,763; 1,440,178
—, —, Turnbull's blue for, 1,521,056
—, —, urea for, 1,315,216; 1,355,834
—, —, varnish for, 1,388,824; 1,388,825; 1,388,827; 1,388,828; 1,426,521; 1,521,056
—, —, viscose for, 1,388,825; 1,388,828
—, —, wax for, 1,366,256
—, —, xylene for, 1,234,381
—, —, zinc chloride for, 1,388,824; 1,388,825; 1,388,827
—, —, zinc oxide for, 1,329,386; 1,521,055; 1,521,056
—, —, zinc salts for, 1,388,824; 1,388,827
—, methyl acetate in, 1,303,563
—, methyl acetone in, 1,315,216
—, methyl alcohol in, 1,156,894
—, pyridine in, 1,156,894
—, silicic acid ester in, 1,315,216
—, sodium silicate in, 1,273,213
—, starch in, 1,273,213
—, tetrachlorethane in, 1,156,894
—, tin chloride in, 1,400,430
—, tricresyl phosphate in, 1,315,216
—, triphenyl phosphate in, 1,315,216; 1,320,290; 1,325,363
—, urea in, 1,315,216
—, wall board made with, 1,344,962
—, zinc alginate as, 1,395,016
—, zinc chloride in, 1,400,430
—, *see also Airplane fabric, fireproofing, Airplane fabric, waterproofing; Dope; Dope, airplane; Enamel, plastic; Lacquer, airplane*
Airplane engines, fuel for, 1,423,058
—, manifold for, mfr. of, amalgam for, 1,282,266; 1,282,269
—, —, —, bronze powder for, 1,282,266; 1,282,267; 1,282,269
—, —, —, galvanoplastic method for, 1,282,266; 1,282,267; 1,282,269
—, —, —, graphite for, 1,282,266; 1,282,267; 1,282,269
—, —, —, grease for, 1,282,266; 1,282,267; 1,282,269
—, —, —, mercury for, 1,282,266; 1,282,269
—, —, —, process for, 1,282,266
—, —, —, wax for, 1,282,266; 1,282,267; 1,282,269
Airplane fabric, cellulose acetate on, 1,394,890
—, cellulose nitrate on, 1,394,890
—, *coating, see Airplane dope*
—, doping, 1,427,941
—, fireproof, cellulose nitrate dope for coating, 1,429,295
—, fireproofing, 1,427,941
—, —, antimony trichloride for, 1,388,824; 1,388,825; 1,388,827
—, impregnating, Portland cement for, 1,456,323
—, mfr. of, acetone for, 1,427,941; 1,429,295
—, —, airplane dope for, 1,325,363
—, —, alcohol for, 1,429,295

Airplane fabric, mfr. of, algin for, 1,427,941
—, —, alum for, 1,427,941; 1,429,295
—, —, aluminum ammonium sulfate for, 1,429,295
—, —, aluminum phosphate for, 1,427,941
—, —, aluminum sulfate for, 1,427,941; 1,429,295
—, —, ammonium magnesium phosphate for, 1,427,941
—, —, ammonium phosphate for, 1,325,863; 1,427,941
—, —, ammonium salts for, 1,427,941; 1,429,295
—, —, ammonium sodium phosphate for, 1,427,941
—, —, ammonium sulfate for, 1,427,941; 1,429,295
—, —, amyl acetate for, 1,427,941; 1,429,295
—, —, apparatus for, 1,325,363
—, —, asphalt for, 1,427,941
—, —, beeswax for, 1,427,941
—, —, borax for, 1,427,941; 1,429,295
—, —, calcium chloride for, 1,427,941; 1,429,295
—, —, camphor for, 1,427,941
—, —, canvas for, 1,427,941; 1,429,295
—, —, castor oil for, 1,427,941
—, —, cellulose acetate for, 1,325,363; 1,427,941; 1,429,295
—, —, cellulose nitrate for, 1,325,363; 1,427,941; 1,429,295
—, —, cellulose sulfite liquor for, 1,427,941
—, —, ceresin for, 1,427,941
—, —, chloroform for, 1,429,295
—, —, cotton for, 1,427,941; 1,429,295
—, —, ether for, 1,429,295
—, —, fabric for, 1,325,363
—, —, gelatin for, 1,427,941
—, —, glucose for, 1,427,941
—, —, glucose, confectioners, for, 1,427,941
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—, —, honey for, 1,427,941
—, —, Irish moss for, 1,427,941
—, —, linen for, 1,427,941; 1,429,295
—, —, magnesium chloride for, 1,427,941; 1,429,295
—, —, molasses for, 1,427,941
—, —, paraffin for, 1,427,941
—, —, phenol aldehyde condensate for, 1,427,941
—, —, pitch for, 1,427,941
—, —, process for, 1,325,363; 1,427,941; 1,429,295
—, —, rubber for, 1,427,941
—, —, salicylic acid for, 1,427,941
—, —, sodium phosphate for, 1,427,941;
—, —, sodium sulfate for, 1,427,941; 1,429,295
—, —, sugar for, 1,427,941
—, —, *s*-tetrachlor-ethane for, 1,429,295
—, —, triphenyl phosphate for, 1,325,363
—, —, varnish for, 1,427,941
—, —, varnish, spar, for, 1,427,941
—, —, viscose for, 1,427,941
—, —, zinc chloride for, 1,429,295
—, softening, water, for, 1,394,890
—, *treatment of, see Airplane dope*
—, wire-reinforced, 1,442,323
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—, —, acetone for, 1,389,084
—, —, alcohols for, 1,389,084
—, —, aluminum for, 1,389,084
—, —, amyl acetate for, 1,389,084
—, —, aniline for, 1,389,084
—, —, balsams for, 1,389,084
—, —, barium sulfate for, 1,389,084
—, —, calcium carbonate for, 1,389,084
—, —, camphor for, 1,389,084
—, —, carmine for, 1,389,084
—, —, castor oil for, 1,389,084
—, —, celluloid for, 1,389,084
—, —, cellulose acetate for, 1,389,084
—, —, cellulose butyrate for, 1,389,084
—, —, cellulose ester for, 1,389,084
—, —, cellulose ether for, 1,389,084
—, —, cellulose nitrate for, 1,389,084
—, —, cotton for, 1,389,084
—, —, cresol for, 1,389,084
—, —, ethyl-acetate for, 1,389,084
—, —, ethyl cellulose for, 1,389,084
—, —, fusel oil for, 1,389,084
—, —, gold for, 1,389,084
—, —, gums for, 1,389,084
—, —, lampblack for, 1,389,084
—, —, molasses for, 1,389,084
—, —, naphthalene for, 1,389,084
—, —, naphthol for, 1,389,084
—, —, nitro-benzene for, 1,389,084
—, —, oil, essential, for, 1,389,084
—, —, phenol for, 1,389,084
—, —, pigment for, 1,389,084
—, —, process for, 1,389,084
—, —, resins for, 1,389,084
—, —, shellac for, 1,389,084
—, —, triphenyl phosphate for, 1,339,084
—, —, zinc oxide for, 1,389,084
Airplane fuel, acetone in, 1,420,006
—, alcohol in, 1,420,006; 1,420,007
—, amyl acetate in, 1,420,006; 1,420,007
—, amyl alcohol in, 1,420,006; 1,420,007
—, benzene in, 1,420,007
—, butyl acetate in, 1,420,006; 1,420,007
—, butyl alcohol in, 1,420,006; 1,420,007
—, castor oil in, 1,420,006; 1,420,007
—, diethyl ketone in, 1,420,006
—, esters in, 1,420,006; 1,420,007
—, ethyl acetate in, 1,420,006; 1,420,007
—, ethyl butyrate in, 1,420,006; 1,420,007
—, ethyl methyl ketone in, 1,420,006
—, gasolene in, 1,420,006
—, kerosene in, 1,420,006
—, ketones in, 1,420,006
—, mfr. of, process for, 1,474,135
—, methyl acetate in, 1,420,006; 1,420,007
—, methyl alcohol in, 1,420,006; 1,420,007
—, methyl butyrate in, 1,420,006; 1,420,007
—, toluene in, 1,420,007
— *see also Fuel, liquid*
Airplane propeller, copper coated, mfr. of, amyl acetate for, 1,282,268
—, —, —, bronze powder for, 1,282,268
—, —, —, galvanoplastic method for, 1,282,265; 1,282,268; 1,282,270

Airplane propeller, copper coated, mfr. of, grease for, 1,282,265; 1,282,268; 1,282,270
—, —, —, mercury for, 1,282,265; 1,282,268; 1,282,270
—, —, —, process for, 1,282,265; 1,282,268; 1,282,270
—, copper plated on, 1,335,846
—, copper plating, apparatus for, 1,335,176
—, laminated metal coating for, mfr. of, amyl acetate for, 1,282,268
—, —, —, bronze powder for, 1,282,268
—, —, —, galvanoplastic method for, 1,282,265; 1,282,268; 1,282,270
—, —, —, grease for, 1,282,265; 1,282,258; 1,282,270
—, —, —, mercury for, 1,282,265; 1,282,268; 1,282,270
—, —, —, process for, 1,282,265; 1,282,268; 1,282,270
—, mfr. of, alloy for, 1,343,191
—, —, alloy, bismuth in, for, 1,343,191
—, —, —, lead in, for, 1,343,191
—, —, —, tin in, for, 1,343,191
—, —, aluminum for, 1,304,102
—, —, amyl acetate for, 1,335,846
—, —, bismuth, alloy contg., for, 1,343,191
—, —, black walnut for, 1,361,598
—, —, bronze powder for, 1,335,846
—, —, canvas for, 1,308,527
—, —, celluloid for, 1,356,847
—, —, cellulose acetate for, 1,356,847
—, —, copper for, 1,335,846
—, —, copper amalgam for, 1,335,846
—, —, cord for, 1,308,527
—, —, cotton cloth for, 1,361,971
—, —, duck for, 1,343,191
—, —, fabric for, 1,308,527; 1,343,191; 1,433,728
—, —, fiber for, 1,308,527
—, —, fiber, vulcanized, for, 1,304,102; 1,356,847
—, —, grease for, 1,335,846
—, —, lead, alloy contg., for, 1,343,191
—, —, mahogany for, 1,361,598
—, —, metal for, 1,343,191; 1,433,728
—, —, mercury for, 1,335,846; 1,343,191
—, —, paper for, 1,433,728
—, —, papier mache for, 1,304,102
—, —, phenol aldehyde condensate for, 1,308,527; 1,343,191; 1,361,971; 1,433,728
—, —, process for, 1,223,321; 1,246,029; 1,304,102; 1,308,527; 1,335,846; 1,343,191; 1,356,847; 1,361,598; 1,361,971; 1,433,728
—, —, resin for, 1,223,321; 1,246,029
—, —, rubber for, 1,308,527
—, —, sand for, 1,343,191
—, —, steel for, 1,308,527
—, —, tin, alloy contg., for, 1,343,191
—, —, vulcanized fiber for, 1,356,847; 1,361,598
—, —, walnut, black, 1,361,598
—, —, wire for, 1,361,971
—, —, wood for, 1,223,321; 1,246,029; 1,304,102; 1,308,527; 1,356,847; 1,361,598; 1,433,728
Airplane structural element, mfr. of, fabric for, 1,269,420
—, —, process for, 1,269,420
—, —, rubber for, 1,269,420
Airplane varnish, linseed oil in, 1,394,890
—, *see also Airplane dope; Dope; Varnish, airplane*
Airplane wings, dope, fireproof, for, 1,358,250
—, fireproofing, sodium stannate and ammonium sulfate for, 1,358,250
—, —, stannic acid for, 1,358,250
—, mfr. of, camel hair for, 1,199,249; 1,236,685
—, —, cotton for, 1,199,249; 1,236,685
—, —, fiber, animal, for, 1,199,249; 1,236,685
—, —, —, vegetable, for ,1,199,249; 1,236,685
—, —, flax for, 1,199,249
—, —, hair for, 1,199,249; 1,236,685
—, —, hemp for, 1,199,249; 1,236,685
—, —, linen for, 1,236,685
—, —, process for, 1,199,249; 1,236,685
—, —, ramie for, 1,199,249
—, —, rhea for, 1,199,249; 1,236,685
—, —, rubber for, 1,199,249; 1,236,685
—, —, rubber, synthetic, for, 1,199,249; 1,236,685
—, —, rubber substitute for, 1,236,685
—, —, wool for, 1,199,249; 1,236,685
Airplane wireless generator casings, mfr. of, adhesive for, 1,344,765; 1,433,730
—, —, Bakelite for, 1,344,765; 1,433,730
—, —, copal for, 1,344,765; 1,433,730
—, —, cotton batting for, 1,344,765; 1,433,730
—, —, duck, ground, for, 1,344,765; 1,433,730
—, —, fabric for, 1,344,765; 1,433,730
—, —, fibrous material for, 1,344,765; 1,433,730
—, —, glue, marine, for, 1,344,765; 1,433,730
—, —, paper for, 1,344,765; 1,433,730
—, —, phenol aldehyde condensate for, 1,344,765; 1,433,730
—, —, process for, 1,344,765; 1,433,730
—, —, shellac for, 1,344,765; 1,433,730
—, —, wood flour for, 1,344,765; 1,433,730
Air purifier, see Gas mask
Airships, cloth for, dope for coating, 1,381,412
—, —, tung oil in dope for, 1,381,412
—, construction of, 1,236,961
—, doped fabric for, 1,381,413
—, engines for, air, compressed, for operating, 1,423,987
—, —, coal gas for operating, 1,423,987
—, —, hydrogen for operating, 1,423,987
—, —, oxygen, compressed, for operating, 1,423,987
—, fabric for, aluminum powdered coated with, 1,449,748
—, —, ester gum as coating for, 1,449,748
—, —, rubber for coating of, 1,449,748
—, —, tung oil as coating for, 1,449,748
—, —, turpentine as coating for, 1,449,748
—, —, waterproofing, aluminum powdered for, 1,449,748
—, —, —, ester gum for, 1,449,748
—, —, —, tung oil for, 1,449,748
—, —, —, turpentine for, 1,449,748
—, *see also Air-craft; Balloons*
Alabaster, see Gypsum; Calcium sulfate; Stalagmite
Alabastine, mfr. of, glue for, 1,166,325
—, —, gypsum for, 1,166,325
—, —, process for, 1,116,325
—, molded article contg., 1,292,688
—, plaster of Paris in, 1,143,152

Alabastine, tire, puncture-healing composition for made with 1,143,152
—, wall covering made with, 1,166,325
—, whiting in, 1,143,152
Alabastrites, see Gypsum
α-Alanin, silver salt of, preparing, 1,417,167
Albertite, emulsifying of, process for, 1,440,356
Albite, alkali aluminate made with, 1,508,777
—, alkali carbonate made using, 1,514,657
—, alkali hydroxide made using, 1,514,657
—, alumina made with, 1,508,777
—, aluminum from, 1,380,552
—, aluminum oxide made using, 1,514,657
—, brick, sand-lime, made using, 1,514,657
—, calcium silicate made using, 1,514,657
—, cement made with, 1,209,220; 1,514,657
—, fertilizer made with, 1,508,777
—, *see also Aluminum silicates; Feldspar; Feldspar, soda; Sodium silicates*
Albumen, acetone for treating metal compounds of, 1,371,380; 1,371,381
—, acetylene storage tanks contg., 1,419,746
—, acetylene stored using, 1,304,160
—, adhesive made with, 1,373,412; 1,396,393; 1,505,043
—, airplane covering material made with, 1,519,239
—, albumose solution made with, 1,489,181
—, alcohol, effect of on, 1,262,808
—, alkali perborate made with, 1,253,061
—, aluminum, colloidal, made with, 1,491,250
—, animal, alcohol made with, 1,227,374
—, —, cattle feed made with, 1,227,374
—, —, food product made with, 1,160,783; 1,202,508
—, —, glucose made with, 1,227,374
—, —, halvah made with, 1,202,508
—, —, phenol aldehyde condensate, composition of and, 1,218,146
—, baking powder contg., 1,443,180
—, baking preparation contg., 1,370,272
—, beverage made with, 1,500,670
—, beverage clarifier made with, 1,239,930
—, bichromated, color photography film coated with, 1,389,963
—, —, film, motion picture, colored, made with, 1,213,038
—, —, plate, printing, color, photomechanical, made using, 1,134,382
—, bismuth, colloidal, made with, 1,491,250
—, *black, see Blood, dried*
—, blood, adhesive use of, 1,396,393
—, —, brake lining made with, 1,416,979
—, —, celluloid substitute made with, 1,134,527; 1,360,356
—, —, clarian, coal, bituminous, separation from of, using, 1,499,872
—, —, —, durain, separation from of, using, 1,499,872
—, —, —, fusain, separation from of, using, 1,499,872
—, —, —, shale, barren, separation from of, using, 1,499,872
—, —, —, —, carboniferous, separation from of, using, 1,499,872
—, —, coke made with, 1,499,872
—, —, cork prepared using, 1,224,264
Albumen, blood, durain, clarian, separation of from, using, 1,499,872
—, —, —, vitrain, separation of from, using, 1,499,872
—, —, fabric, brocaded effect on, made using, 1,513,370
—, —, fusain, clarian, separation of from, using, 1,499,872
—, —, —, vitrain, separation of from using, 1,499,872
—, —, glue made with, 1,329,599; 1,459,541; 1,468,313
—, —, horn substitute made with, 1,360,356
—, —, insulation, electric, made with, 1,360,356
—, —, ivory substitute made with, 1,360,356
—, —, leather, glazed kid, made using, 1,345,430
—, —, —, seasoning of, using, 1,345,430
—, —, molded article made with, 1,360,356
—, —, phenol aldehyde condensate substitute made with, 1,360,356
—, —, plastic made with, 1,360,356
—, —, properties of, 1,499,872
—, —, shale, barren, clarian, separation of from, using, 1,499,872
—, —, —, —, vitrain, separation of from, using, 1,499,872
—, —, —, carboniferous, clarian, separation of, from, using, 1,499,872
—, —, —, —, vitrain, separation of from, using, 1,499,872
—, —, skins seasoned with, 1,345,429
—, —, themoplastic made with, 1,134,527
—, —, vitrain, coal, bituminous, separation from of, using, 1,499,872
—, —, —, durain, separation from of using, 1,499,872
—, —, —, fusain, separation from of, using, 1,499,872
—, —, —, shale, barren, separation from of, using, 1,499,872
—, —, —, —, carboniferous, separation from of, using, 1,499,872
—, —, *see Blood albumin*
—, board, artificial, made with, 1,183,446
—, book cloth made with, 1,505,043
—, bottle, caps for, made with, 1,149,200; 1,234,711
—, candy, cream centers for, contg., 1,309,979
—, caoutchouc, artificial, made with, 1,178,721
—, carbon, decolorizing, made with, 1,478,987
—, carcinoma, metal compounds for, 1,371,380
—, celluloid, glass, composite body of and made with, 1,182,739
—, celluloid substitute contg., 1,319,666; 1,360,356
—, cellulose, colloidal, made with, 1,458,542
—, cellulose dispersing agent, 1,458,542
—, cellulose esters made with, 1,458,542
—, cellulose ethers, composition of and, 1,217,028; 1,505,043; 1,505,044
—, cellulose sulfite liquor contg., 1,218,638
—, cellulose sulfite liquor as emulsifier for, 1,440,356
—, cellulose sulfite liquor and, lignoprotein made from, 1,464,949
—, cement made with, 1,505,043
—, charcoal, artificial, made with, 1,478,987

Albumen, chewing gum made with, 1,397,742
—, chromium, colloidal, made with, 1,491,250
—, clarian, coal, bituminous, separation from of, using, 1,499,872
—, —, durain, separation from of, using, 1,499,872
—, —, fusain, separation from of, using, 1,499,872
—, —, shale, barren, separation from of, using, 1,499,872
—, —, —, carboniferous, separation from of using, 1,499,872
—, coal, bituminous, clarian, separation of from, using, 1,499,872
—, —, —, vitrain, separation of from, using, 1,499,872
—, cobalt, colloidal, made with, 1,491,250
—, coffee clarifer made with, 1,239,930
—, coffee extract coated with, 1,292,458
—, coffee substitute made with, 1,486,792
—, coffee tablets coated with, 1,367,725
—, coke made with, 1,499,872
—, collar, linen, substitute made with, 1,256,240
—, colloidal, mfr. of, alcohol for, 1,392,849
—, —, —, benzene for, 1,392,849
—, —, —, benzine for, 1,392,849
—, —, —, hydrocarbon, chlorinated, for, 1,392,849
—, —, —, ketones for, 1,392,849
—, —, —, oils for, 1,392,849
—, —, —, petroleum for, 1,392,849
—, —, —, process for, 1,214,299; 1,392,849
—, —, —, soap for, 1,392,849
—, —, —, water for 1,392,849
—, colloidal dispersion of, preparing, 1,392,849
—, colloidal suspensions prepared with, 1,444,257
—, colloidal solutions stabilized with, 1,429,876
—, commutator made with, 1,511,316
—, concentrating, membranes for, 1,409,185
—, copper, colloidal, made with, 1,491,250
—, copper salts, precipitation with of, 1,472,316
—, cork, artificial, made with, 1,170,102
—, cotton fabric, mercerization of using, 1,482,076
—, dentifrice made with, 1,470,794
—, depilatory solution contg., 1,435,876
—, diaphragm for electrolysis of, 1,371,698
—, die, metallic, made with, 1,157,493
—, digestion of, bacteria for, 1,366,338
—, durain, clarian, separation of from, using, 1,499,872
—, —, vitrain, separation of from, using, 1,499,872
—, dye applied with, 1,426,299
—, dyeing cellulose acetate in presence of, 1,378,443
—, ebonite substitute contg., 1,319,666
—, egg, antiseptic made with, 1,145,634
—, —, bactericide made with, 1,145,634
—, —, beverage made with, 1,141,816
—, —, brass, etching of, with, 1,276,599
—, —, bouillon clarified with, 1,297,635
—, —, caoutchouc, synthetic, made with, 1,149,577
—, —, catalyst for hydrogenation made with, 1,280,314; 1,280,315; 1,282,296
—, —, celluloid substitute made with, 1,134,527
Albumen, egg, coffee substitute made with, 1,141,816
—, —, confection, frozen, contg., 1,445,200
—, —, copper, etching of, with, 1,276,599
—, —, cork prepared using, 1,224,264
—, —, egg preserved with, 1,261,724
—, —, gasolene, solid, made with, 1,262,808
—, —, hydrocarbon, solid, made with, 1,262,808
—, —, hydrogenation, catalyst for, made with, 1,282,296
—, —, insulating composition contg., 1,427,621
—, —, latex, artificial, made with, 1,149,577
—, —, metal, etching of with, 1,276,599
—, —, oil, hydrogenation of, catalyst for, made with, 1,282,296
—, —, photography, color, using, 1,128,389
—, —, pine apple juice clarified by, 1,370,117
—, —, plate, tinning, made with, 1,276,599
—, —, polish made with, 1,153,686
—, —, sausage casing made with, 1,478,968
—, —, steel etching of with, 1,276,599
—, —, thermoplastic made with, 1,134,527
—, —, thio-protein compounds made with, 1,145,634
—, —, zinc, etching of with, 1,276,599
—, —, *see also Egg albumen*
—, electroplating process employing, 1,464,149
—, emulsifying with, 1,440,356
—, emulsion, turbid, made with, 1,500,670
—, ether, effect of on, 1,262,808
—, ethyl alcohol made with, 1,475,215
—, ethyl cellulose, composition of and, 1,217,028; 1,505,043; 1,505,044
—, fabric, acid-proof, made with, 1,233,334
—, —, alkali, proof made with, 1,233,334
—, —, colloid-treated made with, 1,256,240
—, —, grease-proof, made with, 1,233,334
—, —, waterproof, made with, 1,233,334
—, —, water resisting contg., 1,313,658
—, fabrics stiffened with, 1,421,700
—, fabric stiffening material contg., 1,421,700
—, fats contg., 1,381,564
—, feathers, imitation, made using, 1,246,296
—, filament, artificial, made with, 1,217,028; 1,505,043; 1,505,044
—, film made with, 1,505,044
—, film, motion picture, made with, 1,183,698; 1,361,783
—, —, —, colored, made with, 1,281,714
—, fish-bait contg., 1,291,614
—, fish-extract made with, 1,209,399
—, fish-oil, removal from of, process for, 1,132,710
—, fish skins, tanning of, using, 1,230,266; 1,256,974
—, fluorescent substance, protection from, compound suitable for, contg., 1,511,874
—, food made with, 1,126,734; 1,287,600
—, food product made with, 1,138,602; 1,159,455; 1,209,399
—, fondant contg., 1,309,979
—, fusian, clarian, separation of from, using, 1,499,872
—, —, vitrain, separation of from, using, 1,499,872
—, galalith substitute contg., 1,319,666
—, galvanizing process employing, 1,464,149

Albumen, gasolene, solid, made with, 1,262,808
—, gelatin, composition of and, 1,182,739
—, glass, celluloid, composite body of and made with, 1,182,739
—, glass, strengthened, made with, 1,182,739
—, glass prevented from sweating with, 1,369,708
—, glycerophosphoric acid salt of, medicinal preparations made with, 1,129,270
—, glue made with, 1,329,599; 1,473,987; 1,505,043
—, glue, waterproof, made with, 1,506,013
—, glue contg. blood-, 1,329,599
—, glutamic acid made with, 1,255,390
—, gold leaf, handling of using, 1,279,655
—, graphite, colloidal, made with, 1,175,958
—, hair, artificial, made with, 1,217,028; 1,505,043
—, hardened, diaphragm, gelatin made with, 1,235,063
—, —, —, gelatose made with, 1,235,063
—, —, —, glue fractionated using, 1,235,063
—, —, —, glutin made with, 1,235,063
—, heron feathers, imitation, made using, 1,246,296
—, horn substitute contg., 1,319,666; 1,360,356
—, horse-hair fabric, treatment of with, 1,469,023
—, horse-serum, antiseptic made with, 1,145,634
—, —, bactericide made with, 1,145,634
—, —, thio-protein compounds made with, 1,145,634
—, hydrocarbon, solid, made with, 1,262,808
—, icing made with, 1,507,374
—, indigo, dyeing with, using, 1,239,526
—, ink, printing, made with, 1,142,365
—, insulation, electric, made with, 1,155,812; 1,274,728; 1,360,356; 1,392,849
—, iron, colloidal, made with, 1,491,250
—, —, zinc coated, made with, 1,491,381
—, iron salts, precipitation with of, 1,472,316
—, Japanese soy made with, 1,514,554
—, lacquer made with, 1,505,043
—, lactose and, product contg., mfr. of, 1,444,178
—, lead, colloidal, made with, 1,491,250
—, lead salts, precipitation with of, 1,472,316
—, leather, artificial, made with, 1,140,174; 1,392,849; 1,505,043
—, —, coating for, made with, 1,505,043; 1,505,044
—, leather seasoning with blood-, 1,345,430
—, leather substitute made with, 1,256,240
—, light-sensitive coatings on copper plates of, 1,329,088
—, light-sensitizing, ammonium bichromate for, 1,329,088
—, liner made with, 1,476,115
—, lysalbinic acid from, 1,391,154
—, lysalbuminates from, 1,412,438
—, malt extract contg., 1,515,108
—, mfr. of, acetone for, 1,277,727
—, —, alcohol for, 1,147,767
—, —, alcohol, denatured for, 1,147,767
—, —, apparatus for, 1,229,919
—, —, blood for, 1,415,277
—, —, calcium hydroxide for, 1,229,919
Albumen, mfr. of, calcium oxide for, 1,229,919
—, —, carbon tetrachloride for, 1,147,767; 1,277,727
—, —, chloroform for, 1,147,767
—, —, cocoanuts for, 1,431,519
—, —, creamery sewage for, 1,229,919
—, —, distillery slop for, 1,147,767
—, —, distillery slop (corn) for, 1,147,767
—, —, distillery slop (potato) for, 1,147,767
—, —, distillery slop (sugar beet) for, 1,147,167
—, —, egg for, 1,277,727
—, —, egg, decomposed, for, 1,277,727
—, —, ethyl alcohol for, 1,147,767
—, —, fusel oil for, 1,147,767
—, —, methyl alcohol for, 1,147,767; 1,277,727
—, —, milk for, 1,229,919
—, —, pineapple for, 1,166,674
—, —, process for, 1,147,767; 1,166,674; 1,229,919; 1,277,727
—, —, sodium chloride for, 1,277,727
—, —, sulfuric acid for, 1,229,919
—, —, trichlorethane for, 1,277,727
—, membranes made with, 1,505,043
—, metal, colloidal, made with, 1,491,250
—, —, metal coated, made with, 1,491,381
—, metal compound of, 1,371,380; 1,371,381
—, metal leaf, handling of using, 1,279,655
—, mercury, colloidal, made with, 1,491,250
—, mercury chloride, precipitation with of, 1,472,316
—, mercury chloride and potassium fluoride, effect of on, 1,473,899
—, mercury chloride and sodium fluoride, effect of on, 1,473,899
—, mercury chloride and sodium fluosilicate, effect of on, 1,473,899
—, methyl cellulose, composition of and, 1,505,044
—, milk contg., 1,199,018
—, milk, artificial, made with, 1,200,782
—, milk-, coagulating, 1,432,686
—, —, prepared flour contg., 1,428,628
—, —, separation from of, copper sulfate for, 1,472,316
—, —, soluble, mfr. of, 1,444,178
—, *milk, see also Milk albumen; Globulin; Proteid; Fibrin*
—, milk constituent, 1,435,464
—, milk product made with, 1,126,734
—, molded article made with, 1,183,446; 1,360,356; 1,392,849; 1,477,576
—, molybdenum, colloidal, made with, 1,491,250
—, nickel, colloidal, made with, 1,491,250
—, ninhydrin free, 1,371,381
—, nutriment-contg., preparation of, yeast and sugar for, 1,391,683
—, oil, removal from of, formaldehyde for, 1,247,516
—, —, —, process for, 1,247,516
—, oil cloth, imitation, made with, 1,140,174
—, paint contg., 1,382,617; 1,405,109; 1,505,043
—, paint, oil water color, contg., 1,327,928
—, paper, acid-proof, made with, 1,233,334
—, —, alkali-proof, made with, 1,233,334
—, —, coating for, made with, 1,505,043; 1,505,044
—, —, grease-proof, made with, 1,233,334

Albumen, paper, waterproof, made with, 1,233,334
—, paste made with, 1,505,043
—, phenol aldehyde condensate made with, 1,187,869
—, phosphoric acid compounds of, preparation of, 1,381,295
—, photochemical processes, protection from, compound suitable for, contg., 1,511,874
—, photoengraving process using, 1,285,015
—, photographic emulsion made with, 1,505,043
—, photographic emulsion, protection from, compound suitable for, contg., 1,511,874
—, photographic print, color, made with, 1,263,962
—, photographic screen, colored, made with, 1,161,731
—, photography, color, process for using, 1,191,034; 1,288,753
—, —, —, multicolor screen for, made with, 1,486,635
—, pigment, affixing agent for, made with, 1,505,043
—, placenta, metal compound of, 1,371,380
—, plastic made with, 1,169,756; 1,183,446; 1,187,869; 1,274,728; 1,319,666; 1,360,356; 1,505,044
—, plate, die-, made with, 1,157,493
—, —, photographic, made with, 1,285,015; 1,497,272
—, polish made with, 1,356,128
—, porpoise skin tanned with, 1,230,266; 1,256,974
—, potasium fluoride and mercury chloride, effect of on, 1,473,899
—, *powdered, see Albumen, colloidal*
—, printing, aluminum base for, grain screen for, made with, 1,265,641
—, —, copper base for, grain screen for, made with, 1,265,641
—, —, intaglio, grain screen for, made with, 1,265,641
—, —, lithographic, grain screen for, made with, 1,265,641
—, —, stone base for, grain screen for, made with, 1,265,641
—, —, zinc base for, grain screen for, made with, 1,265,641
—, printing paste made with, 1,505,043
—, printing plate made using, 1,243,431; 1,302,919; 1,496,268
—, printing plate, grain screen for, made with, 1,265,641
—, —, half-tone, made with, 1,154,643; 1,507,049
—, —, photo mechanical, made with, 1,155,186
—, product from, dyeing textile fabrics in presence of, 1,379,381
—, properties of, 1,499,872
—, products from, washing with, 1,379,381
—, protalbinic acid from, 1,391,154
—, protalbuminates from, 1,412,438
—, roofing made with, 1,183,446
—, rubber, synthetic, made with, 1,238,930; 1,248,888
—, rubber-like substance made with, 1,415,468
—, sausage casing made with, 1,478,968
—, serum, lysalbinic acid from, 1,391,154
Albumen, serum, protalbinic acid from, 1,391,154
—, shale, barren, clarian, separation of from, using, 1,499,872
—, —, —, vitrain, separation of from, using, 1,499,872
—, —, carboniferous, clarian, separation of from, using, 1,499,872
—, —, —, vitrain, separation of from, using, 1,499,872
—, shark skins tanned with, 1,230,266; 1,256,974
—, shoe filler made with, 1,136,980; 1,138,909; 1,203,435; 1,227,696
—, shoe heel made with, 1,477,576
—, shoe sole made with, 1,477,576
—, shoe stiffeners contg., 1,415,378
—, size made with, 1,373,412
—, sizing contg., 1,276,206; 1,505,043; 1,505,044
—, silk, artificial, made with, 1,169,756; 1,217,028; 1,458,542; 1,505,043; 1,505,044
—, —, —, cellulose acetate, sizing of using, 1,506,052
—, —, —, cellulose ester, sizing of using, 1,506,052
—, —, —, cellulose ether, sizing of using, 1,506,052
—, —, —, cellulose nitrate made with, 1,398,525
—, —, —, cuprammonium, sizing of using, 1,506,052
—, —, —, sizing of using, 1,506,052
—, —, —, viscose, sizing of using, 1,506,052
—, silver, colloidal, made with, 1,491,250
—, skin tanned with, 1,256,974
—, soap sheets contg., 1,436,929
—, sodium fluoride and mercury chloride, effect of on, 1,473,899
—, sodium fluosilicate and mercury chloride, effect of on, 1,473,899
—, sodium perborate made with, 1,253,061
—, soluble, extraction of from whey, 1,381,605
—, soya beans contg., 1,394,236
—, stencil made with, 1,371,157; 1,398,013
—, stencil, metallic, made with, 1,311,275
—, sugar solution, iron removed from using, 1,150,194
—, —, purification of using, 1,150,194
—, sugar syrup contg., removal from of, 1,304,438
—, "sweet water," iron removed from using, 1,150,194
—, —, purification of using, 1,150,194
—, syphilitic, metal compounds of, 1,371,380
—, tantalum, colloidal, made with, 1,491,250
—, technical, mfr. of, 1,442,341
—, textile, coating for, made with, 1,505,043; 1,505,044
—, thallium, colloidal, made with, 1,491,250
—, therapeutic product, protection from, compound suitable for, contg., 1,511,874
—, thyroid, metal compounds of, 1,371,380
—, tin, colloidal, made with, 1,491,250
—, tinting of, bismuth ferrocyanide for, 1,279,276
—, —, bismuth nitrate for, 1,279,276
—, —, bismuth sulfide for, 1,279,276
—, —, cadmium ferrocyanide for, 1,279,276
—, —, cadmium sulfide for, 1,279,276

Albumen, tinting of, cobalt ferrocyanide for, 1,279,276
—, —, cobalt sulfide for, 1,279,276
—, —, copper ferrocyanide for, 1,279,276
—, —, copper sulfide for, 1,279,276
—, —, copper(ic) nitrate for, 1,279,276
—, —, ferrocyanide for, 1,279,276
—, —, iron alum for, 1,279,276
—, —, iron ferrocyanide for, 1,279,276
—, —, iron sulfide for, 1,279,276
—, —, lead ferrocyanide for, 1,279,276
—, —, lead nitrate for, 1,279,276
—, —, lead sulfide for, 1,279,276
—, —, mercury ferrocyanide for, 1,279,276
—, —, mercury sulfide for, 1,279,276
—, —, molybdenum ferrocyanide for, 1,279,276
—, —, molybdenum sulfide for, 1,279,276
—, —, nickel ferrocyanide for, 1,279,276
—, —, nickel sulfide for, 1,279,276
—, —, potassium ferrocyanide for, 1,279,276
—, —, process for, 1,279,276
—, —, silver ferrocyanide for, 1,279,276
—, —, silver sulfide for, 1,279,276
—, —, sodium sulfide for, 1,279,276
—, —, sulfide for, 1,279,276
—, —, tin ferrocyanide for, 1,279,276
—, —, tin sulfide for, 1,279,276
—, —, tungsten ferrocyanide for, 1,279,276
—, —, tungsten sulfide for, 1,279,276
—, —, uranium ferrocyanide for, 1,279,276
—, —, uranium nitrate for, 1,279,276
—, —, uranium sulfide for, 1,279,276
—, titanium, colloidal, made with, 1,491,250
—, tuberculosis, metal compounds of, 1,371,380
—, tungsten, colloidal, made with, 1,491,250
—, ultra-violet filter, protection from, compound suitable for, contg., 1,511,874
—, ultra-violet light, protection from, compound suitable for, contg., 1,511,874
—, uranium, colloidal, made with, 1,491,250
—, vanadium, colloidal, made with, 1,491,250
—, varnish made with, 1,392,849; 1,505,043
—, vegetable, alcohol made with, 1,227,374
—, —, cattle feed made with, 1,227,374
—, —, coffee tablet made with, 1,137,265
—, —, food product made with, 1,160,783; 1,202,508
—, —, glucose made with, 1,227,374
—, —, halvah, made with, 1,202,508
—, —, mfr. of, agar-agar for, 1,289,053
—, —, —, algin for, 1,289,053
—, —, —, carbon, decolorizing, for, 1,289,053
—, —, —, Iceland moss for, 1,289,053
—, —, —, Irish moss for, 1,289,053
—, —, phenol aldehyde condensate, composition of and, 1,218,146
—, vitamin, compound of, made with, 1,480,520
—, vitrain, coal, bituminous, separation from of, using, 1,499,872
—, —, durain, separation from of, using, 1,499,872
—, —, fusain, separation from of, using, 1,449,872
—, —, shale, barren, separation from of, using, 1,499,872
—, —, —, carboniferous, separation from of, using, 1,499,872
Albumen, wall covering contg., 1,313,658
—, waterproofing made with, 1,373,412; 1,400,579
—, waterproofing solution made with, 1,437,893
—, water-soluble, preparing, 1,415, 277
—, whale-oil, removal from of, process for, 1,132,710
—, whale skins tanned with, 1,230,266; 1,256,974
—, *white, see Egg albumen*
—, wood impermeabilized with, 1,356,015
—, wool, artificial, cellulose, nitric acid and for, mfr. of, 1,400,381
—, X-ray screen, protection from, compound suitable for, contg., 1,511,874
—, yeast made with, 1,475,215
—, yeast, dry, made with, 1,306,569
—, —, leather substitute made with, 1,287,387
—, zinc, iron coated with, made with, 1,491,381
—, zinc salts, precipitation with of, 1,472,316
—, *see also Casein; Caseinates; White of eggs*
Albumen glue, shoe filler made with, 1,134,931
Albumen precipitating agents, cellulose ether, composition of and, 1,505,044
—, ethyl cellulose, composition of and, 1,505,044
—, filament, artificial, made with, 1,505,044
—, film made with, 1,505,044
—, coating for, made with, 1,505,044
—, methyl cellulose, composition of and, 1,505,044
—, paper, coating for, made with, 1,505,044
—, plastic made with, 1,505,044
—, silk, artificial, made with 1,505,044
—, sizing made with, 1,505,044
—, textile, coating for, made with, 1,505,044
Albumin, see Albumen
Albuminates, electroplating process employing, 1,464,149
—, galvanizing process employing, 1,464,149
—, indigo, dyeing with, using, 1,239,526
Albuminoid, albumoses from, ferment for, 1,253,334
—, bottle seal contg., 1,299,389
—, celluloid substitute made with, 1,134,527
—, fabric, water resisting, contg., 1,313,658
—, flax, retting of, using, 1,235,738
—, hydrolysis of, 1,442,339; 1,442,340; 1,442,341
—, ivory substitute made with, 1,360,356
—, peptones from, ferment for, 1,253,334
—, phenol aldehyde condensate made with, 1,146,384; 1,146,385
—, phenol aldehyde condensate substitute made with 1,360,356
—, phonograph record of, 1,404,792
—, precipitating, tannin for, 1,410,809
—, record, phonograph, made with, 1,146,384; 1,146,385; 1,404,792
—, removal from beverages, 1,441,726
—, rubber, reclaiming of using, 1,189,282
—, thermoplastic made with, 1,134,527
—, vegetable, production of, 1,425,033
—, wall coverings contg., 1,313,658
—, water paint contg., 1,424,908
Albuminoid material, plastic material from, 1,360,356
Albuminous material, horn, artificial, mfr. from, 1,395,834
—, starch, laundry, removal from of, process for, 1,148,453; 1,148,454

Albuminous product, mfr. of, alkali carbonate for, 1,169,634
—, —, alkali hydroxide for, 1,169,634
—, —, bayberry oil cake for, 1,169,634
—, —, cocoa for, 1,169,634
—, —, cotton seed oil cake for, 1,169,634
—, —, kapok seed oil cake for, 1,169,634
—, —, linseed oil cake for, 1,169,634
—, —, madia oil cake for, 1,169,634
—, —, niger oil cake for, 1,169,634
—, —, peanut oil cake for, 1,169,634
—, —, poppy oil cake for, 1,169,634
—, —, process for, 1,169,634
—, —, pumpkin seed oil cake for, 1,169,634
—, —, sesame oil cake for, 1,169,634
—, —, sodium carbonate for, 1,169,634
—, —, sodium hydroxide for, 1,169,634
—, —, soya bean oil cake for, 1,169,634
—, —, sunflower oil cake for, 1,169,634
Albuminous waste, treating, 1,442,339; 1,442,340; 1,442,341
Albumose, aluminum, colloidal, made with, 1,491,250
—, bismuth, colloidal, made with, 1,491,250
—, blood pressure reducing substance prepared from, 1,399,535
—, chromium, colloidal, made with, 1,491,250
—, cobalt, colloidal, made with, 1,491,250
—, copper, colloidal, made with, 1,491,250
—, electroplating process employing, 1,464,149
—, ethyl alcohol made with, 1,475,215
—, galvanizing process employing, 1,464,149
—, indigo, dyeing with, using, 1,239,526
—, iron, colloidal, made with, 1,491,250
—, lead, colloidal, made with, 1,491,250
—, mfr. of, albuminoid and ferment for, 1,253,334
—, mercury, colloidal, made with, 1,491,250
—, metal, colloidal, made with, 1,491,250
—, molybdenum, colloidal, made with, 1,491,250
—, nickel, colloidal, made with, 1,491,250
—, silver, colloidal, made with, 1,491,250
—, tantalum, colloidal, made with, 1,491,250
—, thallium, colloidal, made with, 1,491,250
—, tin, colloidal, made with, 1,491,250
—, titanium, colloidal, made with, 1,491,250
—, tungsten, colloidal, made with, 1,491,250
—, uranium, colloidal, made with, 1,491,250
—, vanadium, colloidal, made with, 1,491,250
—, yeast made with, 1,475,215
Albumose solution, mfr. of, acetone for, 1,489,181
—, —, albumen for, 1,489,181
—, —, alcohol for, 1,489,181
—, —, alkali for, 1,489,181
—, —, ammonium hydroxide for, 1,489,181
—, —, cocoa fat for, 1,489,181
—, —, keratin for, 1,489,181
—, —, process for, 1,489,181
—, —, ricinoleic acid for, 1,489,181
—, —, sodium chloride for, 1,489,181
Alcali, see Alkali
"Alcatroloid," alcoholic liquid, non-potable, mfr. from, 1,453,374
—, formula, tar or petroleum 100, sulfuric acid sufficient, alcohol 300, 1,453,374
—, fuel, liquid, mfr. with, 1,453,374
"Alcatroloid," motor fuel mfr. with, 1,453,374
Alchornea cordifolia, anti-fouling composition contg. juice of, 1,392,068
Alcohol, abalone, imitation, made with, 1,434,157
—, absorbing, water for, 1,376,069
—, absolute, mfr. of, alcohol for, 1,508,435
—, —, —, apparatus for, 1,508,435
—, —, —, benzene for, 1,508,435
—, —, —, carbon tetrachloride for, 1,508,435
—, —, —, hexane for, 1,508,435
—, —, —, process for, 1,350,254; 1,508,435
—, —, —, xylene for, 1,508,435
—, —, paper made translucent by castor oil and, 1,345,184
—, abrasive wheel made with, 1,427,844
—, acaroid solvent, 1,430,026
—, acetaldehyde made with, 1,143,714; 1,426,449; 1,454,609
—, acetaldehyde absorbed by, 1,426,449
—, acetaldehyde from, catalysts for preparing, 1,400,203; 1,400,204
—, —, catalysts for mfr., producing, 1,375,345; 1,376,665
—, acetaldehyde and hydrogen from, 1,375,345; 1,376,665
—, acetamide, oleic acid, compound of and, made with, 1,475,477
—, acetic series, plastic made with, 1,512,024
—, acetoacetic-anilide-*p*-carboxylic acid, made with, 1,126,413
—, 3-acetyl-4.5-diketo-2-furyl-1-phenyl-pyrrolidine made with, 1,148,637
—, acid-proofing made with, 1,234,381; 1,241,738
—, acyclic, cellulose nitrate solvent, 1,323,624
—, adhesive made with, 1,158,962; 1,389,084; 1,498,269
—, adhesive for, radium luminous material contg., 1,364,950
—, adhesive cement contg., 1,467,356
—, adrenal glands extracted with, 1,460,832
—, adrenaline made with, 1,399,144
—, agar-agar, colloidal, made with, 1,392,849
—, agate, imitation, made with, 1,496,198
—, airplane dope contg., 1,156,894; 1,234,381; 1,320,290; 1,347,801; 1,363,763; 1,366,256; 1,388,825; 1,429,295; 1,488,608; 1,496,198
—, airplane dope made fireproof with, 1,309,581
—, airplane fabric made with, 1,429,295
—, airplane fabric mending composition made with, 1,389,084
—, airplane fuel contg., 1,420,006; 1,420,007
—, albumen made with, 1,147,767
—, albumen, colloidal, made with, 1,392,849
—, —, effect on of, 1,262,808
—, albumose solution made with, 1,489,181
—, alcohol, absolute, made with, 1,508,435
—, —, coating impervious to, made with, 1,124,012
—, —, solid, made with, 1,317,950
—, —, solidified, made with, 1,266,080; 1,299,408; 1,313,876; 1,329,583; 1,329,610; 1,484,190; 1,503,835; 1,513,746
—, aldol made with, 1,151,113; 1,261,811
—, alfalfa extract made with, 1,195,152
—, aliphatic, benzylcellulose made with 1,483,738

Alcohol, aliphatic, cellulose nitrate solvent contg., 1,439,293
—, —, ethyl cellulose solvent of chlorhydrin and, 1,444,406
—, —, ethyl cellulose solvent of ethylene chlorhydrin and, 1,444,406
—, —, partial oxidation of, apparatus for, 1,515,299
—, —, —, process for, 1,515,299
—, —, rubber, synthetic, made with, 1,218,713
—, alkali acetylsalicylate made with, 1,129,953; 1,217,862
—, alkali benzyl phthalate made with, 1,485,377; 1,485,378
—, alkali benzyl succinate made with, 1,485,377; 1,485,379
—, alkali cyanide made with, 1,322,195
—, alkali earth acetyl-salicylate made with, 1,217,862
—, alkali-proofing made with, 1,234,381; 1,241,738
—, alkamine amino-alkoxy-benzoic acid ester solvent, 1,317,250
—, alkyl esters made with, 1,478,498
—, alkyl hydrogen sulfate made with, 1,484,249
—, *a*-allyl-*a.a*-diethyl-acetamide made with, 1,482,343
—, 1-allyl-3.7-dimethylxanthine mfr. with, 1,415,700
—, 1-allyl-theobromine made with, 1,415,700
—, aloe extract made with, 1,167,230
—, aluminum, cork coated with, made using, 1,376,737
—, —, electro-plating of with, 1,256,954
—, —, fabric coated with, made using, 1,376,737
—, —, insulation, electric, made for using, 1,137,986
—, —, nickel plated with, 1,256,954
—, —, paper, tissue, coated with, made using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, silk, coated with, made using, 1,376,737
—, —, wood coated with, made using, 1,376,737
—, aluminum acetate, therapeutic compound of, solvent, 1,132,709
—, aluminum alloy, insulation, electric, made for, using, 1,137,986
—, aluminum chloride, catalyst, recovery of, using, 1,202,081
—, aluminum filings, coated, made with, 1,204,709
—, aluminum foil made with, 1,178,863; 1,225,044
—, aluminum hydroxide, pectin, removal from of, using, 1,497,884
—, aluminum oleate solvent, 1,393,833
—, amber, imitation, made with, 1,199,798; 1,245,476; 1,263,284
—, amber substitute made with, 1,241,738; 1,386,576
—, *m*-aminoanisic acid, alkamine ester of, solvent, 1,317,250
—, 2-amino-3-chlor-anthraquinone made with, 1,452,774
—, 6-amino-7-brom-5′-.7′-dichlor-indirubin made with, 1,266,092
Alcohol, 5-(aminoethyl)-imidazole-hydrochloride made with, 1,178,720
—, *o*-aminomethoxybenzoic acid, alkamine ester of, solvent, 1,317,250
—, *p*-aminomethoxybenzoic acid, alkamine ester of, solvent, 1,317,250
—, amino methyl sulfites purified with, 1,426,348
—, *n*-(4′-amino-1′-naphthyl)-*p*-toluenesulfonamide, made with, 1,442,818
—, *p*-aminophenol, oleic acid, compound of and, made with, 1,475,477
—, 2-amino-1-(2′-phenyl-4′-quinolyl)-ethanol made with, 1,434,306
—, ammonium benzyl phthalate made with, 1,485,377; 1,485,378
—, ammonium benzyl succinate made with, 1,485,377; 1,485,379
—, ammonium nitrate solvent, 1,503,835
—, ammonium picramate made with, 1,472,791
—, ammonium silver glycocholate made with, 1,161,866
—, amphibies, preserving of using, 1,163,645
—, *amyl*, *see Amyl alcohol*
—, amyl acetate recovered by, 1,395,940
—, amylaminophenylarsenic acids separated with, 1,440,621
—, *tert*-amyl vanadate solvent, 1,133,961
—, analgesic made with, 1,478,463
—, anatomical specimens, preserving of using, 1,163,645
—, anhydrous, preparing, 1,417,477
—, aniline, oleic acid, compound of and, made with, 1,475,477
—, aniline black solvent, 1,421,728
—, 2-anilino-anthraquinone made with, 1,238,932
—, animals, preserving of using, 1,163,645
—, animal matter, sterilization of, using, 1,250,079
—, anthraquinone derivatives mfr. with, 1,437,783
—, anthraquinone derivatives soluble in, 1,417,875
—, anti-freeze compound contg., 1,442,330
—, anti-freezing mixture contg., 1,473,327
—, anti-leak composition contg., 1,383,572
—, anti-misting composition contg., 1,362,092
—, antimony trichloride solvent contg., 1,388,825; 1,418,609
—, antiseptic made with, 1,145,634; 1,425,882; 1,425,883; 1,425,884
—, antiseptic dressing made with, 1,177,014; 1,177,015
—, apple oil, synthetic, dissolved in, 1,436,290
—, aqueous, cellulose acetate solvent, 1,434,634
—, aromatic; cellulose nitrate solvent contg., 1,439,293
—, —, side-chain, ethyl cellulose solvent, 1,460,690
—, arsenic compound made with, 1,191,580; 1,506,460
—, arsenic compounds precipitated in wood by, 1,374,806
—, arsenical solution contg., 1,456,509
—, *N*-(*p*-arsinosophenyl)-glycinanilide made with, 1,280,121; 1,280,122; 1,280,126
—, arsenophenylglycine formaldehyde derivative made with, 1,299,214

Alcohol, *N*-(arsenosophenyl)glycyl-*m'*-aminophenol solvent, 1,280,122
—, *N*-(*p*-arsonophenyl)*a*-phenylglycinamide made with, 1,280,119; 1,280,124
—, *N*-(*p*-arsonophenyl)-*a*-phenyl-glycinureide made with, 1,280,120; 1,280,125
—, *N*-(*p*-arsonophenyl)glycyl-*m'*-aminophenol, sodium salt of, made with, 1,280,121
—, art gum made with, 1,315,246
—, asphalt, fireproofing of, using, 1,388,829
—, " assphtlein " contg., 1,471,566
—, atophan, allyl ester of, hydriodide of, made with, 1,502,275
—, —, benzyl ester of, hydriodide of, made with, 1,502,275
—, —, *iso*-butyl ester of, hydriodide of, made with, 1,502,275
—, —, *n*-butyl ester of, hydriodide of, made with, 1,502,275
—, —, ethyl ester of, hydriodide of, made with, 1,502,275
—, —, propyl ester of, hydriodide of, made with, 1,502,275
—, automobile top lining treated with, 1,412,014
—, bactericide made with, 1,145,634; 1,250,079; 1,259,517
—, balata, filler for, made with, 1,315,246
—, —, substitute for, made with, 1,315,246
—, balata solvent recovered with, 1,312,452
—, barium acetyl-salicylate made with, 1,217,862
—, base ball bat made with, 1,518,254
—, battery, dry, made with, 1,484,779
—, —, —, storing of using, 1,508,371
—, —, electric, electrolyte for, contg., 1,134,093
—, —, primary, cathode for, made using, 1,243,111
—, —, —, copper oxide depolarizer, made with, 1,506,425
—, —, storage, container for, made with, 1,306,679
—, —, —, electrode for, made with, 1,156,686; 1,439,994
—, —, —, electrodes washed with, 1,439,994
—, beer made with, 1,149,704
—, beer, removing from, of, 1,337,027
—, beer low in mfr. of, 1,432,422
—, beer wort, sterilization of, using, 1,250,079
—, belt made with, 1,503,453
—, belt dressing made with, 1,315,246
—, belting made with, 1,265,855
—, *p*-benzaldehyde-arsenious acid made with 1,472,778
—, benzene made with, 1,282,906
—, benzene separated from, 1,417,477
—, benzene, solidified, made with, 1,223,153; 1,484,190
—, benzidine, oleic acid, compound of and, made with, 1,475,477
—, benzine, refining of using, 1,515,733
—, benzine substitute made with, 1,256,537
—, 3-benzoyl-4.5-diketo-1-*o*-methoxyphenyl-2-phenyl-pyrrolidine made with, 1,148,637
—, 3-benzoyl-4.5-diketo-1 (or 2)-phenyl-2 (or 1) -*p*-tolyl-pyrrolidine made with, 1,148,637
—, benzoyl-ecgonine made with, 1,218,536
—, *benzyl, see Benzyl alcohol*
—, benzyl cellulose solvent contg., 1,454,960
Alcohol, benzyl ethyl cellulose solvent contg., 1,454,960
—, benzyl lithium phthalate made with, 1,485,377; 1,485,378
—, benzyl lithium succinate made with, 1,485,377; 1,485,379
—, benzyl methyl cellulose solvent contg., 1,454,960
—, *o*-benzyloxy-benzoic acid made with, 1,481,779; 1,491,779
—, benzyl potassium phthalate made with, 1,485,377; 1,485,378
—, benzyl potassium succinate made with, 1,485,377; 1,485,379
—, benzyl sodium phthalate made with, 1,485,377; 1,485,378
—, benzyl sodium succinate made with, 1,485,377; 1,485,379
—, benzyl succinate purified by, 1,439,605
—, betaine, vinasse, extraction from of, using, 1,219,226
—, beverage made with, 1,250,095; 1,500,670
—, birdlime thinned with, 1,460,053
—, *p.p'*-bis (dimethylamine)-thiobenzophenone made with, 1,220,248
—, 2.2-bis (hydroxy-phenyl) propane solvent, 1,225,748; 1,225,749
—, 4.4'-bis (methylamino)-3.3'-dimethylthio-benzophenone made with, 1,220,248
—, bismuth acetyl-salicylate made with, 1,217,862
—, bismuth chloride dissolved by, 1,385,229
—, bismuth organic acids, mercury salt of, made with, 1,515,495
—, bivinyl made with, 1,144,237; 1,282,906
—, black strap for producing, treatment of slops from, 1,357,138
—, black strap molasses for producing, 1,344,850; 1,344,851
—, blending with hydrocarbons, alkylene oxide for, 1,446,872
—, block, building, contg., 1,305,993
—, blood, colloidal, made with, 1,395,729
—, blood clotting substance made with, 1,240,694
—, boat mending composition made with, 1,389,084
—, boric acid, potassium chloride, separation of from, using, 1,232,156
—, boric acid flux applied to solder with, 1,429,703
—, boric acid solvent, 1,329,148; 1,429,703
—, brass, etching of with, 1,276,599
—, brake lining made with, 1,414,378; 1,429,267; 1,519,322
—, brake made with, 1,450,140
—, *b*-bromethyl p-nitrobenzoate made with, 1,260,289
—, bromethyl-triethyl-arsonium-bromide made with, 1,308,413
—, bromethyl-trimethyl-arsonium-bromide made with, 1,308,413
—, (*a*-brom-*iso*-valeryl)-pseudourea-methyl ether solvent, 1,126,432
—, bronzing liquid made with, 1,488,608
—, brush, bristle, made with, 1,259,031
—, —, electric, made with, 1,177,119

Alcohol, buckhorn extract made with, 1,167,230
—, butane, solidified, made with, 1,484,190
—, butter, coloring compound for, made with, 1,203,594; 1,224,910
—, buttons made with, 1,395,729; 1,470,637
—, *butyl, see Butyl alcohol*
—, calcium acetyl-salicylate made with, 1,217,862; 1,225,407
—, calcium *o*-benzyloxy-benzoate made with, 1,481,779
—, calcium bicarbonate, recovery with of, 1,326,432
—, calcium chloride solvent, 1,145,186; 1,321,632
—, calcium ethyl *b*-keto-glutarate made with, 1,419,091
—, calcium hydroxide, recovery with of, 1,326,432
—. calcium phosphate precipitated by, 1,367,597
—, calcium hypochloride made with, 1,481,039
—, caffeol extracted with, 1,292,458
—, camphor borate made with, 1,478,690
—, camphor solvent, 1,165,148; 1,474,830
—, camphoric acid derivatives mfr. with, 1,406,547
—, Canada balsam solvent, 1,426,995
—, can-sealing composition contg., 1,386,620
—, canvas, fluid-proofing of, using, 1,356,267
—, caoutchouc, synthetic, made with, 1,146,253
—, carbon bisulfide, solidified, made using, 1,223,153
—, carbon black, compacting of with, 1,263,082
—, carbon dioxide, removal from of, 1,493,183; 1,510,373; 1,519,932
—, carbon dioxide purified using, 1,519,932
—, carbon monoxide made with, 1,256,623
—, carbon remover made with, 1,205,264; 1,244,114; 1,287,589; 1,368,965; 1,372,639; 1,386,337; 1,455,574
—, carbon tetrachloride, freezing point of mixture of and, 1,243,149; 1,270,393; 1,270,394; 1,270,395; 1,270,396; 1,270,397
—, —, solidified made using, 1,223,153; 1,484,190
—, carbon tetrachloride freezing point effected by, 1,292,743; 1,292,744
—, 3′-carboxy-4′-hydroxy-atophan made with, 1,181,485
—, carburant for, acetone oil in, 1,469,148
—, —, camphine in, 1,469,148
—, —, *see also Fuel, liquid*
—, cardboard, composite, made with, 1,354,154
—, carragheen moss, colloidal, made with, 1,392,849
—, cartridge shell, paper, made with, 1,135,356
—, cascara extract made with, 1,167,230
—, casein, colloidal, made with, 1,392,849; 1,395,729
—, —, treatment of, using, 1,209,539
—, casein product made with, 1,375,624
—, casein product precipitated by, 1,381,295
—, casket, burial, finishing of, using, 1,481,433
—, castor oil solvent, 1,428,085
—, catalyst, aluminum chloride as, recovery of using, 1,202,081
—, —, for the mfr. of, chlorbenzene, made with, 1,189,736
Alcohol, catalyst, hydrogenation, made with, 1,159,480; 1,251,202; 1,482,740
—, —, nickel as, made with, 1,251,202; 1,329,323; 1,482,740
—, catgut, sterilization of using, 1,202,931
—, cattle food made with, 1,147,767; 1,147,768
—, cedar box substitute made with, 1,283,422
—, cement made with, 1,158,962; 1,354,154; 1,408,325; 1,496,198
—, cement, oxychloride, casting of using, 1,515,150
—, cephaeline allyl ether solvent, 1,219,575
—, cephaeline amyl ether solvent, 1,219,574
—, cephaeline *iso*-amyl ether solvent, 1,219,574
—, cephaeline *iso*-butyl ether solvent, 1,219,571
—, cephaeline propyl ether solvent, 1,219,573
—, ceramic ware, cleaner for, contg., 1,494,147
—, ceresin solvent, 1,277,904
—, cerium acetyl-salicylate made with, 1,217,862
—, celluloid made with, 1,233,374; 1,364,342; 1,430,020; 1,468,820; 1,508,483; 1,508,484
—, celluloid, dyeing of using, 1,234,450; 1,248,468
—, —, fireproofing of using, 1,388,825
—, —, non-inflammable, made with, 1,496,198
—, celluloid article made with, 1,434,157
—, celluloid cement made with, 1,496,198
—, celluloid dissolved in acetone and, 1,388,169
—, celluloid solution thinned with, 1,332,349
—, celluloid solvent contg., 1,138,479; 1,140,174; 1,141,224; 1,146,391; 1,167,468; 1,181,758; 1,221,457; 1,366,256; 1,434,157
—, celluloid substitute made with, 1,153,596; 1,158,960; 1,160,063; 1,181,858; 1,181,859; 1,181,860; 1,185,074; 1,191,801; 1,195,040; 1,199,798; 1,200,886; 1,217,027; 1,234,381; 1,241,739; 1,242,783; 1,245,476; 1,275,324; 1,280,862; 1,363,763; 1,386,576; 1,420,028; 1,440,006; 1,501,206; 1,508,928; 1,512,751
—, cellulose made with, 1,509,273
—, cellulose hydrochloric acid solution of precipitant using, 1,141,510
—, cellulose, vulcanized, made with, 1,236,959
—, cellulose acetate made with, 1,236,578; 1,338,661; 1,478,137
—, cellulose acetate, colloidal, made with, 1,392,849
—, —, gelatin, separation from of, using, 1,196,799
—, —, glue, separation from of, using, 1,196,799
—, cellulose acetate (acetone soluble), made with, 1,241,995
—, cellulose acetate dissolved by chloroform and, 1,338,661
—, cellulose acetate dissolved by diethyl phthalate and, 1,449,156
—, cellulose acetate dissolved by dimethyl phthalate and, 1,449,156
—, cellulose acetate dissolved by ethyl acetoacetate and, 1,449,156
—, cellulose acetate dissolved by ethyl succinate and, 1,449,156
—, cellulose acetate dissolved by triacetin and, 1,449,156
—, cellulose acetate precipitated with, 1,456,781
—, cellulose acetate lacquer contg., ~~1,355,978~~
—, cellulose acetate plastics mfr. with, 1,420,028

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Alcohol, cellulose acetate solvent contg., 1,009,116; 1,153,596; 1,156,894; 1,158,960; 1,181,758; 1,181,857; Re-14,338; 1,181,858; 1,181,859; 1,181,860; 1,195,673; 1,196,799; 1,199,798; 1,201,260; 1,217,722; 1,236,578; 1,242,783; 1,245,476; 1,258,913; 1,265,217; 1,286,172; 1,303,563; 1,338,661; 1,363,763; 1,386,576; 1,408,095; 1,420,028; 1,421,288; 1,421,289; 1,421,290; 1,421,341; 1,425,580; 1,434,634; 1,440,006; 1,454,959; 1,454,960; 1,454,961; 1,463,864; 1,465,994; 1,480,016; 1,501,206; 1,503,835; 1,508,928
—, cellulose acetate solvent mixtures contg., 1,357,447
—, cellulose aceto-nitrate solvent contg., 1,454,961
—, cellulose butyrate solvent, 1,421,288; 1,421,289; 1,421,290; 1,425,580; 1,425,581
—, cellulose ester, colloidal, made with, 1,392,849
—, cellulose ester solvents, 1,283,183; 1,389,084; 1,397,986; 1,400,196; 1,454,959; 1,454,960; 1,454,961
—, cellulose ester substitute made with, 1,241,738
—, cellulose ether made with, 1,188,376
—, cellulose ether, mixed solvent, 1,454,959
—, cellulose ether plasticizer, 1,357,614
—, cellulose ether solvent, 1,217,027; 1,217,028; 1,357,614; 1,389,084; 1,411,708; 1,427,690; 1,429,188; 1,431,905; 1,432,364; 1,434,465; 1,437,792; 1,450,714; 1,454,959; 1,454,960; 1,454,961; 1,469,813; 1,469,862; 1,469,863; 1,473,217; 1,473,218; 1,473,219; 1,505,043; 1,505,044
—, cellulose fibers made with, 1,509,273
—, cellulose formate, colloidal, made with, 1,392,849
—, cellulose formate precipitated by, 1,153,596
—, cellulose formyl phosphate made with, 1,153,596
—, cellulose formyl phosphate, precipitated by, 1,153,596
—, cellulose nitrate made with, 1,509,273
—, cellulose nitrate, colloidal, made with, 1,392,849; 1,454,414
—, cellulose nitrate colloided with ether and, 1,357,865
—, cellulose nitrate dehydrated by, 1,393,623
—, cellulose nitrate dissolved by diethyl phthalate and, 1,449,156
—, cellulose nitrate dissolved by dimethyl phthalate and, 1,449,156
—, cellulose nitrate dissolved by ethyl acetoacetate and, 1,449,156
—, cellulose nitrate dissolved by ethyl succinate and, 1,449,156
—, cellulose nitrate dissolved by triacetin and, 1,449,156
—, cellulose nitrate dried with, 1,308,344; 1,308,346
—, cellulose nitrate precipitated by, 1,438,395
—, cellulose nitrate coating made fireproof with, 1,309,581
—, cellulose nitrate explosive contg., 1,303,115; 1,392,851; 1,464,012
—, cellulose nitrate lacquer contg., 1,355,978
—, cellulose nitrate plastic mfr. with, 1,357,876
Alcohol, cellulose nitrate solvent contg., 1,124,012; 1,129,770; 1,133,062; 1,141,224; 1,173,628; 1,181,758; 1,185,514; 1,190,806; 1,190,807; 1,194,095; 1,195,040; 1,196,144; 1,204,709; 1,208,358; 1,212,770; 1,262,825; 1,266,073; 1,283,183; 1,309,581; 1,353,599; 1,358,653; 1,360,759; 1,377,761; 1,382,077; 1,398,239; 1,398,525; 1,400,196; 1,408,095; 1,412,619; 1,421,341; 1,429,295; 1,430,020; 1,431,900; 1,434,453; 1,454,959; 1,454,960; 1,454,961; 1,456,782; 1,463,864; 1,472,830; 1,474,830; 1,484,004; 1,496,198; 1,503,453
—, cellulose nitrate solvent of acetone and, 1,290,073; 1,327,197; 1,388,169
—, cellulose propionate solvent, 1,421,288; 1,421,289; 1,421,290
—, cellulose xanthate made with, 1,251,237
—, chewing gum, chicle substitute, made with, 1,315,246
—, chicle substitute made with, 1,315,246
—, chlorbenzene, catalyst for the mfr. of, made with, 1,189,736
—, 2-chlor-ethanol made with, 1,488,571
—, chlorethyl-hydrocupreine made with, 1,458,670
—, chlorinated compound made with, 1,425,882; 1,425,883; 1,425,884
—, chlorine-proofing made with, 1,234,381
—, 1-chlornaphthalene-3.8-dithioglycolic acid solvent, 1,444,277
—, 1-chlor-4-nitro-benzene solvent, 1,515,364
—, chloroform made with, 1,203,032
—, chloroform, solidified, made using, 1,223,153
—, chlorplatinic acid dissolved by, 1,385,229
—, 4-chlor-*m*-tolyl acetate, composition of and, 1,498,641
—, chlor-*m*-tolyl acetate solvent, 1,498,641
—, 4-chlor-*m*-tolyl cinnamate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl formate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl oxalate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl phenyl-propionate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl propionate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl-*a*-toluate, composition of and, 1,498,641
—, 4-chlor-*m*-tolyl-*a*-toluate solvent, 1,498,641
—, cholic acid, compound of and, 1,218,209
—, cholic acid formaldehyde condensate made with, 1,213,261
—, cholic acid formaldehyde condensate solvent, 1,213,261
—, cigar box made with, 1,283,422
—, citrus oil dissolved in, 1,353,169
—, cleaner contg., 1,123,709; 1,342,862; 1,473,529; 1,474,984; 1,494,147; 1,503,253
—, cleaning and polishing compound contg., wood, 1,340,747; 1,363,481
—, cleansing compound contg., 1,342,862
—, cliche made with, 1,167,939
—, cloth, impregnation of, using, 1,158,965
—, clove oil solvent, 1,465,173
—, clutch facing made with, 1,436,158; 1,519,322
—, coal distillate, solidified, made with, 1,484,190

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Alcohol, coal tar, clutch facing made with, 1,270,559
—, coating made with, 1,124,012; 1,241,738; 1,242,783
—, coating composition made with, 1,196,276; 1,244,777; 1,330,421; 1,355,985; 1,393,832; 1,476,016
—, coating impervious to, alcohol in, 1,124,012
—, —, castor oil in, 1,124,012
—, —, cellulose nitrate in, 1,124,012
—, —, dextrin in, 1,124,012
—, —, ether in, 1,124,012
—, —, methyl alcohol in, 1,124,012
—, —, olive oil in, 1,124,012
—, —, turpentine in, 1,124,012
—, —, turpentine, Canada, in, 1,124, 012
—, cocaine made with, 1,218,536
—, cocoa extract made with, 1,218,536; 1,235,450
—, coffee, soluble, made with, 1,158,431
—, coffee extract made with, 1,123,827; 1,123,828
—, coffee tablet made with, 1,137,265
—, coke, recovery with of, 1,326,432
—, coke-oven gases for mfr. of, 1,385,515; Re-15,211
—, collar, linen substitute, made with, 1,256,240
—, colloidal fuel contg., 1,444,723
—, colloidal suspensions made with, 1,444,257
—, collodion made with, 1,352,121
—, collodion membranes treated with, 1,350,532
—, color lake insoluble in, 1,434,619
—, coloring matter made with, 1,164,036; 1,164,037
—, composite article made with, 1,418,891; 1,441,133
—, composition contg. gliadin and, 1,316,854
—, composition contg. prolamine and, 1,316,854
—, composition contg. zein and, 1,316,854
—, compound, $C_{20}H_{10}O_2N_2Br_2$, made with, 1,518,710
—, —, $C_{21}H_{10}O_4NCl$, made with, 1,138,670
—, —, $C_{28}H_{18}O_4N_2$, made with, 1,138,670
—, —, $C_{28}H_{18}O_7N_2S$, made with, 1,138,670
—, —, $C_{49}H_{36}O_{18}N_6S_5$, made with, 1,218,655
—, concrete, casting of using, 1,515,150
—, concrete surfaced using, 1,515,121
—, condensation of, calcium chloride for, 1,474,216
—, —, glycerol for, 1,474,216
—, —, potassium carbonate for, 1,474,216
—, —, process for, 1,474,216
—, —, zinc chloride for, 1,474,216
—, constant boiling mixture of ethyl acetate, water and, 1,408,325
—, containers for, coating, algae extract for, 1,456,494
—, —, —, Irish moss extract for, 1,456,494
—, —, food made with, 1,206,379
—, copal solvent, 1,417,263
—, copper etching of with, 1,276,599
—, copper, finely divided, made with, 1,257,943
—, copper compounds precipitated in wood by, 1,374,806
—, copper gaskets, sealing of using, 1,341,952
—, copper powder made with, 1,376,961
—, copper(ic) chloride solvent, 1,145,186
—, cork, aluminum coated, made using, 1,376,737
—, —, gold coated, made using, 1,376,737
Alcohol, cork, lead coated, made using, 1,376,737
—, —, metal coated, made using, 1,376,737
—, —, zinc coated, made using, 1,376,737
—, cork stopper made with, 1,234,093
—, cosmetic lotion contg., 1,408,384
—, cracking of, apparatus for, 1,212,620
—, —, calcium chloride for, 1,212,620
—, —, lead for, 1,212,620
—, —, process for, 1,212,620
—, —, zinc chloride for, 1,212,620
—, creosote, fireproofing of, using, 1,388,829
—, crucible made with, 1,450,140
—, cumarone resin solvent, 1,332,860
—, cutting oil made with, 1,425,882; 1,425,883; 1,425,884
—, cyanide made with, 1,322,195
—, cymene disulfonic acid made with, 1,316,823
—, cymene-2-sulfonic acid made with, 1,316,823
—, dehydrating, 1,455,072
—, —, acid anhydrides for, 1,466,435; Re-15,783
—, —, alkali carbonates for, 1,466,435; Re-15,783
—, —, alkali hydroxides for, 1,466,435; Re-15,783
—, —, alkali oxide for, 1,466,435; Re-15,783
—, —, apparatus for, 1,469,447
—, —, calcium carbide for, 1,350,254
—, —, calcium chloride for, 1,466,435; Re-15,783
—, —, calcium oxide for, 1,350,254; 1,373,559
—, —, copper sulfate for, 1,466,435; Re-15,783
—, —, glycerol for, 1,459,699; 1,469,447
—, —, phosphorus pentoxide for, 1,466,435; Re-15,783
—, —, potassium carbonate for, 1,350,254
—, —, potassium fluoride for, 1,350,254
—, —, potassium hydroxide for, 1,466,435; Re-15,783
—, —, process for, 1,469,447
—, —, sodium for, 1,466,435; Re-15,783
—, —, sodium chloride for, 1,466,435; Re-15,783
—, —, sodium hydroxide for, 1,466,435; Re-15,783
—, —, sodium sulfate, anhydrous, for, 1,466,435; Re-15,783
—, dehydration of, process for, 1,474,216
—, denatured, adhesive, made with, 1,515,439
—, —, albumen made with, 1,147,767
—, —, alcohol, solidified, made with, 1,208,265; 1,299,408; 1,329,583; 1,329,610; 1,503,835
—, —, animal dip made with, 1,509,166
—, —, anti-leak composition made with, 1,383,572; Re-15,971
—, —, antimony sulfide, colloidal, made with, 1,412,438
—, —, antimony(ic) sulfide, colloidal, made with, 1,412,438
—, —, battery, dry, made with, 1,484,780
—, —, —, —, depolarizer for, made with, 1,484,780
—, —, —, storage, separator for, made with, 1,520,889
—, —, brass, tarnish of prevention of, composition for, contg., 1,146,336
—, —, camphor solvent, 1,210,987
—, —, can-sealing composition contg., 1,386,620; 1,422,114
—, —, carbon remover contg., 1,125,003; 1,148,403; 1,372,639
—, —, cattle food made with, 1,147,767

Alcohol, denatured, celluloid, glass, composite body of and made with, 1,182,739
—.—,—,—, uniting of and, using, 1,478,862
—,—, celluloid solvent contg., 1,146,336
—,—, cellulose acetate, gelatin, separation from of, using, 1,196,799
—,—,—, glue, separation from of, using, 1,196,799
—,—, cellulose acetate solvent contg., 1,160,979; 1,196,799
—,—, cellulose butyrate mfr. with, 1,425,580; 1,425,581
—,—, cellulose nitrate solvent, 1,147,850; 1,160,979; 1,355,976; 1,437,170
—,—, ceramic ware, cleaner for, contg., 1,494,147
—.—, chloric ether made with, 1,510,759
—,—, cleaner contg., 1,165,027; 1,211,138; 1,472,402; 1,494,147; 1,501,086
—,—, cleaning compound contg., 1,429,978
—,—, coating composition made with, 1,244,777
—,—, container made with, 1,355,976
—,—, copper, tarnish of, prevention of, composition for, contg., 1,146,336
—. denatured, cork flooring, laying of, adhesive for, made with, 1,515,439
—,—, detergent made with, 1,211,188; 1,494,147
—,—, dextrin made with, 1,147,767
—,—, embalming fluid contg., 1,215,210
—,—, enamel made with, 1,137,374
—,—, enamel remover made with, 1,495,547
—,—, ethylene made with, 1,206,222
—,—, fabric covering, 1,124,087
—,—, fat made with, 1,147,767
—,—, fat, emulsion of, made with, 1,230,599
—,—,—, hydrogenated, purification of using, 1,152,023
—,—, finish remover made with, 1,140,449; 1,145,980; 1,147,851; 1,147,852; 1,160,394; 1,167,640; 1,167,641
—,—, floor covering made with, 1,515,439
—,—, formula 1, celluloid, glass, uniting of and, using, 1,478,862
—,—, fuel, gaseous, made with, 1,128,549
—,—,—, liquid, made with, 1,248,302; 1,480,368; 1,516,757
—,—,—, solidified, made with, 1,329,610
—,—, gas made with, 1,470,848
—,—, gelatin, cellulose acetate, separation of from, using, 1,196,799
—,—, glass, celluloid, composite body of and made with, 1,182,739
—,—,—,—, uniting of and, using, 1,478,862
—,—,—, cleaner for contg., 1,494,147
—,—,—, non-shatterable, made with, 1,210,987
—,—,—, strengthened, made with, 1,182,739
—,—, glue, cellulose acetate, separation of from, using, 1,196,799
—,—, glycerol made with, 1,147,767
—,—, glycol made with, 1,206,222
—,—, gold, tarnish of, prevention of, composition for contg., 1,146,336
—,—, gold leaf, imitation, made with, 1,160,979
—,—, gum made with, 1,147,767
—,—, hand-washing compound contg., 1,441,100
—,—, hydrazanisol made with, 1,469,586
—,—, hydrogen made with, 1,128,549
Alcohol, denatured, illuminating gas made with, 1,128,549
—,—, ink containing, 1,439,658
—,—, ink eradicator made with, 1,488,881
—,—, ink, safety, made with, 1,439,658
—,—, insecticide made with, 1,509,166
—,—, iron, cleaning of, using, 1,211,138
—,—, lacquer made with, 1,137,374; 1,437,170
—,—, lacquer, composition for, contg., 1,146,336
—,—, lactic acid made with, 1,147,767
—,—, leather, coating composition for, made with, 1,437,170
—,—,—, patent, made with, 1,437,170
—,—, leather roller treating composition contg., 1,403,944
—,—, linoleum, laying of, adhesive for, made with, 1,515,439
—,—, linseed oil substitute made with, 1,244,777
—,—, machine oil, emulsion of, made using, 1,230,599
—,—, match, water-proof, made with, 1,127,410
—,—, metal, acid-proof coating for, made with, 1,207,845
—,—,—, cleaning of, using, 1,211,138
—,—,—, tarnish of, prevention of, composition for, contg., 1,146,336
—,—, metal leaf made with, 1,160,979
—,—, metaphosphoric acid solvent, 1,211,138
—,—, methane made with, 1,128,549
—,—, molded article made with, 1,167,468; 1,500,303
—,—, naphtha, emulsion of, made using, 1,230,599
—,—, nickel, tarnish of, prevention of, composition for, contg., 1,146,336
—,—, oil, hydrogenated, purification of using, 1,152,023
—,—,—, mineral, emulsion of, made using, 1,230,599
—,—, packing made with, 1,497,782
—,—, paint made with, 1,244,777; 1,515,439
—,—, paint, anti-fouling, made with, 1,200,162
—,—, paint remover made with, 1,130,499; 1,143,110; 1,143,111; 1,147,849; 1,147,850; 1,189,803; 1,189,804; 1,229,247; 1,328,080; 1,495,547
—,—, panama hat, cleaning composition for, contg., 1,165,027
—,—, paper, safety, made with, 1,177,787
—,—,—,—, adhesive, made with, 1,177,787
—,—, paraffin, emulsion of, made using, 1,230,599
—,—, phenol aldehyde condensate made with, 1,414,139
—,—, phenol aldehyde condensate solvent, 1,137,374; 1,414,139; 1,500,303
—,—, phosphoric acid, dehydrated, made with, 1,499,611
—,—,—,—, solvent, 1,499,611
—,—, phosphoric acid solvent, 1,211,138
—,—, plastic made with, 1,497,782
—,—, polish made with, 1,202,495; 1,211,188; 1,472,402
—,—, printing plate made with, 1,377,509; 1,496,268
—,—, pyrophosphoric acid solvent, 1,211,138

Alcohol, denatured, record, phonograph, made with, 1,146,391; 1,167,468
—, —, refinishing composition made with, 1,202,495
—, —, refrigeration process using, 1,510,759
—, —, resins, emulsion of, made using, 1,230,599
—, —, rosin solvent, 1,207,845
—, —, rubber flooring, laying of, adhesive for, made with, 1,515,439
—, —, rustproofing using, 1,211,138; 1,428,086
—, —, shellac solvent, 1,393,290
—, —, shoe lace tip made with, 1,512,162
—, —, silver, tarnish of, prevention of, composition for, contg., 1,146,336
—, —, soap, transparent, made with, 1,212,818
—, —, sodium cyanide separated from carbonate by, 1,337,019
—, —, solidifying, 1,416,493
—, —, stencil made with, 1,244,188; 1,244,189
—, —, stencil sheet made with, 1,196,098
—, —, succinic acid made with, 1,147,767
—, —, sunflower oil, emulsion of, made using, 1,230,599
—, —, varnish remover made with, 1,189,803
—, —, tile flooring, laying of, adhesive for, made with, 1,515,439
—, —, tire puncture healing composition made with, 1,128,282
—, —, tire valve surfacing composition made with, 1,487,677
—, —, valve surfacing composition made with, 1,487,677
—, —, varnish made with, 1,137,374; 1,209,333; 1,437,170
—, —, varnish remover made with, 1,130,499; 1,143,110; 1,143,111; 1,147,849; 1,147,850; 1,189,804; 1,229,247; 1,328,080
—, —, viscose filaments treated with, 1,467,265
—, —, water-proofing made with, 1,127,410
—, —, wax, emulsion of, made using, 1,230,599
—, —, wax removing composition made with, 1,380,299
—, —, wood filler contg., 1,401,907
—, —, *see also Ethyl alcohol; Ethyl alcohol, denatured; Methylated spirit; Spirit, methylated*
—, denaturing, pyridine for, 1,335,246
—, dental polishing device made with, 1,138,479
—, dentifrice made with, 1,275,779; 1,386,252; 1,435,498; 1,477,177; 1,492,299; 1,516,206
—, desoxycholic acid, addition product of and, 1,252,212
—, detergent contg., 1,133,639; 1,324,764; 1,494,147
—, detonator made with, 1,194,095; 1,206,456
—, dextrin made with, 1,147,767
—, dextrin, colloidal, made with, 1,392,849
—, diabetes, compound for treatment of, made with, 1,520,673
—, 2.2-diacetyl-o-pyrocatechuic acid made with, 1,140,716
—, 9.9′diacetylamino-$\Delta^{2,2'}$-*peri*-naphthothiopyran-3(2)-one made with 1,498,913
—, 3-dialkylamino-1-propanol solvent, 1,193,649
—, dialkylbarbituric acid-diethylamine made with, 1,316,047
Alcohol, 3.3′-diamino-4.4′-dihydroxy-arsenobenzene, alkali salts of, made with, 1,191,997
—, diamino-dihydroxy-arsenobenzene-formal dehydebisulfite made with, 1,506,460
—, diaminodihydroxyarsenobenzene silver oxide compound prepared with, 1,446,216
—, 4.4′-diamino-3.3′-dimethyl-benzophenone made with, 1,220,248
—, (?)-dianilino-*N.N*′-dimethyl-quinone made with, 1,209,163
—, diaphragm, porous, made with, 1,474,830
—, —, sound reproducing, made with, 1,213,051; 1,289,007
—, diarylguanidines prepared with, 1,446,818
—, diastatic product made with, 1,192,584
—, diazoaminobenzene solvent, 1,364,304
—, diazodinitrophenol made with, 1,460,708
—, 2-diazo-4.6-dinitro-phenol made with, 1,460,708
—, dibenzyl succinate made with, 1,439,605
—, 6.8-dibrom-2-(2′-thienyl)-cinchonic acid made with, 1,350,408
—, dichloracetal made with, 1,146,854
—, *p*-dichlorbenzene solvent, 1,346,337
—, 2.2′-dichlor-4.4′-dimethylamino-3.5.3′-5′-tetramino-arsenobenzene made with, 1,180,627
—, 2.3-dichlor-juglone made with, 1,327,260
—, dichlorjuglone solvent, 1,327,260
—, didymium acetyl-salicylate made with, 1,217,862
—, *N*-diethyl-aminoethyl-*m*-aminoanisate made with, 1,317,250
—, *N*-diethyl-aminoethyl *m*-aminoanisate solvent, 1,317,250
—, diethylaminoethyletheobromine solvent, 1,414,333
—, 1-diethylaminoethyl-theobromine hydrochloride solvent, 1,414,333
—, *N*-diethyl-aminoethyl-*o*-amino-*p*-toluate made with, 1,317,251
—, *N*-diethyl-aminoethyl-*o*-amino-*p*-toluate solvent, 1,317,251
—, *N*-diethyl-aminoethyl-*p*-amino-*o*-toluate solvent, 1,317,251
—, 3-diethylamino-1-propanol solvent, 1,193,649
—, digitalis, glucoside from, made with, 1,180,657
—, digitotannates extracted from digitalis with, 1,391,705
—, di-hexamethylenetetramine sulfosalicylate made with, 1,133,916
—, di-hexamethylenetetramine sulfosalicylate solvent, 1,133,916
—, dihydroanhydroecgonine ethylester prepared with, 1,352,082
—, dihydroxycodeinone made with, 1,468,805
—, dihydroxycodeinone solvent, 1,468,805
—, dihydroxy-diphenyl-dimethyl-methane aldehyde condensate solvent, 1,158,962; 1,158,963; 1,158,964
—, dihydroxy-diphenyl-dimethyl-methane solvent, 1,156,969; 1,158,960
—, 5-5′-dimethyldibromindigo reaction with, 1,412,038
—, dimethyldiphenylthiuramdisulfide made with, 1,445,621
—, *s*-dimethyl-diphenyl-thiuram disulfide made with, 1,445,621

Alcohol, *N.N*-dimethyl-3-nitro-arsanilic acid made with, 1,163,496
—, dinitro-phenyl acetate solvent, 1,198,040
—, diolefin made with, 1,282,906
—, 5.5-diphenoxyethyl-barbituric acid made with, 1,217,446
—, diphenylamine, oleic acid, compound of and, made with, 1,475,477
—, diphenylamine solvent, 1,424,212
—, diphenylguanidine prepared with, 1,422,506
—, *a.g*-diphenylguanidine made with, 1,422,506
—, disinfectant contg., 1,154,925; 1,227,624; 1,228,926; 1,280,602; Re-14,562; 1,457,708
—, disinfecting tablet made with, 1,340,661
—, distillate fuel oil, solidified, made with, 1,484,190
—, distillation, fractional, of, apparatus for, 1,141,266
—, —, —, —, process for, 1,141,266
—, distillation of, apparatus for, 1,136,559; 1,145,332; 1,199,371; 1,212,620; 1,225,226; 1,292,676
—, —, calcium chloride for, 1,212,620
—, —, continuous still for, 1,319,319
—, —, lead for, 1,212,620
—, —, process for, 1,145,332; 1,212,620; 1,474,216
—, —, zinc chloride for, 1,212,620
—, distillation residue, carbon, decolorizing, made with, 1,286,187; 1,287,592
—, distilling, 1,459,699
—, distilling, apparatus for, 1,427,885; 1,427,888
—, —, process for, 1,427,885; 1,427,888
—, dope made with, 1,347,801; 1,501,206; 1,508,928
—, drying oil made with, 1,256,535; 1,256,536
—, dye applied with, 1,310,518
—, dye dissolved in, 1,310,518
—, —, cinematograph film dyed with, 1,389,963
—, dye extracted by, 1,303,426; 1,337,673
—, dyeing process using, 1,333,700
—, dye solvent, 1,454,363
—, dyestuff made with, 1,123,390; 1,128,368; 1,138,670; 1,151,628; 1,174,820; 1,175,230; 1,188,259; 1,207,762; 1,209,580; 1,218,655; 1,221,849; 1,253,252; 1,261,858; 1,268,455; 1,280,648; 1,299,070; 1,326,367; 1,359,969; 1,387,596; 1,437,674; 1,449,681; 1,500,915; 1,503,194; 1,513,074; 1,518,665; 1,518,710
—, dyestuff, colloidal, made with, 1,458,542
—, dyestuff recovered using, 1,303,426
—, ecgonine made with, 1,218,536
—, eggs, frozen, preserved with 1,398,860
—, eggs preserved using, 1,246,392
—, electric current, variations of, record of, made with, 1,213,613; 1,213,614; 1,213,615; 1,213,616
—, electric lamp leading-in wires coated by aid of, 1,422,443
—, electric light bulb colored with, 1,259,505
—, electrotype plate matrix made with, 1,222,138
—, elemi solvent, 1,430,543
—, embalming with, 1,318,957
—, embalming fluid contg., 1,150,688; 1,495,196
—, emulsions, thickening of, using, 1,234,714
—, —, turbid, made with, 1,500,670
—, emulsion-resolving reagent contg., 1,454,616
—, enamel made with, 1,458,542
Alcohol, enamel, undercoating composition for, made with, 1,425,510
—, enamel remover contg., 1,133,639; 1,381,485
—, enzymes, action on, preventing, sugar for, 1,412,378
—, —, altering characteristics of, using, 1,250,079
—, enzyme precipitated with, 1,298,599; 1,296,600
—, esters made with, 1,478,498; 1,517,968
—, ester gum made with 1,242,161
—, estimating, apparatus for, 1,333,905
—, etching ground of printing plates dissolved by, 1,430,347
—, ethane made with, 1,282,906
—, ethanol-trimethyl-arsonium-chloride made with, 1,308,414
—, ether made with, 1,159,032; 1,328,258; 1,474,772
—, ether, coating impervious to, made with 1,124,012
—, ether, solidified, made with, 1,484,190
—, ether recovered by, 1,395,940
—, ether recovered from cellulose nitrate by, 1,393,713
—, *ethyl, see Ethyl alcohol*
—, ethyl acetate from, 1,403,224; 1,403,225; 1,425,624; 1,425,625
—, ethyl acetate recovered by, 1,395,940
—, ethy benzyl cellulose solvent, 1,454,960
—, ethyl bromide from, 1,429,714
—, ethyl cellulose made with, 1,188,376
—, ethyl cellulose solvent contg., 1,217,027; 1,217,028; 1,394,505; 1,395,905; 1,411,708; 1,431,905; 1,432,364; 1,432,366; 1,432,367; 1,432,368; 1,434,465; 1,437,792; 1,450,714; 1,454,959; 1,454,960; 1,454,961; 1,469,813; 1,469,862; 1,469,863; 1,473,217; 1,473,218; 1,473,219; 1,484,004; 1,505,043; 1,505,044
—, ethyl *p*-(di-(*b*-hydroxyethyl)-amino)-benzoate made with, 1,418,900
—, ethylene made with, 1,211,395; 1,282,906; 1,372,736; 1,400,959; 1,402,329; 1,402,336; 1,421,640; 1,456,590; 1,465,601
—, ethylene converted into, 1,339,947
—, ethylene glycol made with, 1,259,757; 1,259,758; 1,407,274
—, ethylene glycol di-*p*-nitrobenzoate made with, 1,260,289
—, ethylene solvent, 1,211,395
—, ethylene source, 1,423,753
—, ethyl ether contg., impurity of, 1,189,602
—, ethylhydrocupreine-*C*-*C*-diallylbarbituric acid made with, 1,261,235
—, ethyl-hydrocupreine oxide sulfate made with, 1,458,670
—, ethyl methyl cellulose solvent contg., 1,454,959; 1,454,960
—, ethyl phenyl cellulose solvent contg., 1,454,960
—, 5-ethyl-5-phenoxyethyl-barbituric acid made with, 1,217,447
—, ethyl starch made with, 1,350,820
—, ethyl starch solvent, 1,350,820
—, ethyl stearo-ricinate diiodide prepared from, 1,381,057
—, ethyl 3.4.5-triacetoxy-benzoate made with, 1,222,345

Alcohol, ethyl tropinone-carboxylate made with, 1,419,091
—, *ethylic, see Ethyl alcohol*
—, eucalyptol dichloride solvent, 1,366,106
—, euquinine-*C*-*C*-diallylbarbituric acid made with, 1,261,235
—, evaporator for, 1,465,020
—, explosive made with, 1,243,351; 1,306,440; 1,336,463; 1,357,865; 1,410,868
—, explosive, removal from of, process for, 1,237,551
—, extraction from beverages, 1,343,587
—, *extractor for brew kettles, see Beer, dealcoholized, mfr. of, apparatus for*
—, eye shield made with, 1,332,349
—, fabric, acid-proof, made with, 1,233,334
—, —, alkali-proof, made with, 1,233,334
—, —, aluminum coated, made using, 1,376,737
—, —, coated, made with, 1,141,224; 1,165,222
—, —, colloid-treated, made with, 1,256,240
—, —, gold-coated, made using, 1,376,737
—, —, grease-proof, made with, 1,233,334
—, —, impregnating of, using, 1,327,197; 1,388,169
—, —, lead coated, made using, 1,376,737
—, —, metal coated, made using, 1,376,737
—, —, printing composition for, made with, 1,164,036; 1,164,037
—, —, rubber coated, made with, 1,184,015
—, —, water-proof, made with, 1,141,224; 1,233,334; 1,327,197; 1,388,169; 1,388,825; 1,468,820
—, —, water resisting contg., 1,313,658
—, —, zinc coated, made using, 1,376,737
—, fabric bonding composition contg., 1,463,780
—, fabric coated with, 1,184,452
—, fabric coating composition contg., 1,463,780
—, fabric fireproofed with, 1,261,736; 1,388,825
—, fabrics scoured with, 1,435,864
—, fabric treating solution contg., 1,417,587
—, factis made with, 1,315,246
—, fat made with, 1,147,767; 1,147,768; 1,147,769; 1,147,770
—, fat extracted from casein by mixture of benzene and, 1,375,624
—, fat extracted from casein by mixture of benzine and, 1,375,624
—, fat, hydrogenated, purification of using, 1,152,023
—, fat sterilization of, using, 1,250,079
—, fat reducing compound contg., 1,369,997
—, fat removed from proteids by, 1,428,820
—, fat solvent, 1,381,564; 1,405,902
—, fat fractionally separated using ether and, 1,340,186
—, fat fractionated using, 1,340,186
—, fatty acids made with, 1,209,512
—, fatty acids dissolved in, 1,342,590
—, ferments, altering characteristics of, using, 1,250,079
—, ferns treated with, 1,410,226
—, fiber, parchmentized, made with, 1,236,959
—, —, rubber coated, made with, 1,482,336
—, —, rubberized, made with, 1,483,856
—, —, vulcanized, made with, 1,236,959
—, fiber product made with, 1,236,460; 1,236,959
—, filament, artificial, made with, 1,217,028
Alcohol, filament, artificial, viscose, made with, 1,251,237
—, —, —, —, precipitated with, 1,260,508
—, filler, wood, made with, 1,316,674
—, filler composition contg., 1,352,741
—, film made with, 1,141,510; 1,181,859; 1,217,027; 1,241,738; 1,242,783; 1,347,801; 1,363,763; 1,400,196; 1,437,792; 1,440,006; 1,450,714; 1,480,016; 1,484,004; 1,488,608; 1,501,206; 1,508,928
—, film, motion picture, made with, 1,158,963; 1,364,342; 1,455,428
—, —, —, blemished, restorative for, contg., 1,139,680; 1,139,682
—, —, —, —, restoring of, with composition contg., 1,149,443
—, —, —, colored, made with, 1,281,714
—, —, —, dulling of using, 1,502,482
—, —, —, fireproofing of using, 1,388,825
—, —, —, polishing of using, 1,334,655
—, —, photographic, made with, 1,345,184; 1,357,614; 1,411,708; 1,419,379; 1,431,905; 1,432,364; 1,432,366; 1,434,465; 1,493,000; 1,496,198; 1,512,751
—, —, —, developer for, contg., 1,472,048
—, filter made from, 1,147,991
—, filter, ultramicroscopic, made with, 1,421,341
—, filtration membranes treated with, 1,350,532
—, finger print, taking of, using, 1,248,111
—, finger print ink made with, 1,506,082
—, finish remover made with, 1,145,365; 1,147,852; 1,167,462; 1,167,469; 1,167,641; 1,172,773; 1,173,628
—, fire-extinguisher contg., carbon tetrachloride and, 1,243,149; 1,270,393; 1,270,394; 1,270,395; 1,270,396; 1,270,397
—, fire-proofing made with, 1,241,738; 1,261,736; 1,388,829
—, fireproofing process using, 1,388,825
—, fireworks made with, 1,204,709
—, fish, preserving of using, 1,163,645
—, fish oil, hydrogenation of, catalyst for, made with, 1,159,480
—, fish protein, colloidal, made with, 1,395,729
—, flavoring extract mfr. with, 1,403,473
—, flexible material made with, 1,468,820
—, floor covering made with, 1,273,536; 1,482,336; 1,483,856
—, floor covering, slipping prevented of, using, 1,223,538
—, flotation agent prepared with, 1,417,261; 1,417,262; 1,417,263; 1,457,708
—, flotation process using, 1,224,917; 1,246,665; Re-15,802; 1,350,364; 1,364,304; 1,364,305; 1,364,308; 1,417,261; 1,417,262; 1,417,263; 1,457,708; 1,508,478
—, food made with, 1,260,656
—, food product made with, 1,150,691; 1,199,124; 1,275,324
—, food product, sterilization of, using, 1,250,079
—, formaldehyde-urea condensate made with, 1,482,357
—, formation of, acetylene for, 1,421,743
—, —, cellulose sulfite liquor for, 1,315,889; 1,441,243

Alcohol, formation of, ethyl sulfuric acid for, 1,385,515; Re-15,211
—, —, glycerol fermentation of sugars for, 1,425,838
—, —, olefines for, 1,464,152
—, formic acid made with, 1,235,426
—, friction fabric made with, 1,429,267; 1,519,322
—, fruit, desiccating of, with, 1,259,410
—, fruit preserved using, 1,246,392; 1,259,410
—, —, sterilization of, using, 1,250,079
—, fruit juice, sterilization of, using, 1,250,079
—, fuel made with, 1,299,408; 1,513,746
—, fuel, artificial, contg., 1,313,876
—, —, Diesel engine, made with, 1,191,072
—, —, gaseous, made with, 1,128,549
—, —, liquid made with, 1,131,880: 1,204,638; 1,420,006; 1,420,007; 1,420,622; 1,453,374; 1,469,053; 1,471,566; 1,474,982; 1,474,983; 1,480,372; 1,491,275; 1,493,874; 1,494,613; 1,495,094; 1,496,810; 1,516,757; 1,519,905
—, —, self-propelled torpedo contg., 1,512,354
—, —, solidified, made with, 1,329,610; 1,484,190
—, fuel emulsion contg., 1,432,178
—, fuel oil, solidified, made with, 1,484,190
—, fumes from, collecting, 1,371,205
—, fumigating using, 1,250,079
—, furs, preserving of, using, 1,250,079
—, fur-glaze contg., 1,150,208
—, fur-skin, tanning of, using, 1,210,968
—, furfural resin solvent, 1,441,598
—, furnace tube made with, 1,130,533
—, furniture polish contg., 1,438,118
—, galactose for producing, 1,358,129
—, gallocyanin, sulfuretted, made with, 1,188,259
—, gangue, hematite, separation of from, using, 1,244,884
—, —, iron ore, separation of from, using, 1,244,884
—, —, limonite, separation of from, using, 1,244,884
—, garment, treatment of, using, 1,417,587
—, —, wear-proofing of, using, 1,417,587
—, gas contg., mfr. of, process for, 1,470,848
—, gas cooled during compression with, 1,320,167
—, gaskets, sealing of using, 1,341,952
—, gas, mantle, self-lighting, made with, 1,227,259
—, gas oil, solidified, made with, 1,484,190
—, gasolene made with, 1,282,906
—, gasolene, coating impervious to, made with, 1,124,012
—, —, refining of using, 1,515,733
—, —, separation from of, process for, 1,365,048
—, —, —, sulfuric acid for, 1,365,048
—, —, solidified, made using, 1,223,153; 1,484,190
—, gas tar, solidified, made with, 1,484,190
—, gear, made with, 1,370,666; 1,418,891
—, gelatin, cellulose acetate, separation of from, using, 1,196,799
—, —, colloidal, made with, 1,392,849
—, —, treatment of with, 1,206,189; 1,206,190
—, gelatin dispersed in, 1,392,849
—, gelatin solvent, 1,206,189; 1,206,190
—, gelatin substitute made with, 1,217,027
—, germicide made with, 1,213,465
—, glands, sterilization of, using, 1,250,079
Alcohol, glass, cleaner for, contg., 1,494,147
—, —, metal, joining of and, using, 1,167,798
—, —, reinforced, made using, 1,223,135
—, —, unbreakable, made with, 1,342,267
—, glass stained using, 1,328,833
—, glue contg., 1,394,653; 1,394,654
—, glue, animal, solvent, 1,206,189; 1,206,190
—, —, —, treatment of with, 1,206,189; 1,206,190
—, —, cellulose acetate, separation of from, using, 1,196,799
—, —, colloidal, made with, 1,392,849
—, —, hydrolyzed, made with, 1,206,189; 1,206,190
—, glue softened with, 1,426,538
—, glycerol made with, 1,147,767; 1,147,768; 1,147,769; 1,147,770
—, glycerol, calcium lactate, removal from of using, 1,177,746
—, —, calcium succinate, removal from of using, 1,177,746
—, glycerol resin solvent, 1,443,935
—, glycerol solvent, 1,423,042
—, glycol made with, 1,259,757; 1,259,758; 1,402,317
—, gold, cork coated with, made using, 1,376,737
—, —, fabric coated with, made using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, paper, tissue, coated with, made using, 1,376,737
—, —, silk coated with, made using, 1,376,737
—, —, wood coated with, made using, 1,376,737
—, gold leaf made with, 1,512,825
—, gold leaf, imitation, made with, 1,234,250
—, —, paper, attaching to of, using, 1,374,492
—, gold ore, flotation of, using, 1,224,917
—, —, treatment of, using, 1,224,917
—, gold thiophenolate made with, 1,207,284
—, grain, desiccating of, with, 1,259,410
—, —, preserving of, with, 1,259,410
—, granite, coloring of, using, 1,158,730
—, grease made with, 1,425,882; 1,425,883; 1,425,884
—, grease remover made with, 1,496,506
—, guanidine nitrate made with, 1,440,063
—, gum made with, 1,147,767
—, gum, artificial, solvent, 1,225,748; 1,225,749; 1,225,750
—, —, colloidal, made with, 1,392,849
—, gun powder mfr. effected by alcohol, 1,308,342
—, gunpowder mixed with, 1,464,012
—, gutta percha, filler for, made with, 1,315,246
—, gutta percha solvent recovered with, 1,312,452
—, hair, artificial, made with, 1,217,028
—, hair cloth treated with, 1,484,669
—, hair dressing made with, 1,489,388
—, hair remedy contg., 1,516,562
—, *hard, see Alcohol, solid*
—, hat, hemp braid, dyeing of using, 1,206,189
—, —, —, sizing of using, 1,206,189
—, —, Panama, made with, 1,315,605
—, —, straw, dyeing of using, 1,206,189
—, —, —, sizing of using, 1,206,189
—, —, Toyo, made with, 1,315,605
—, hat sizing made with, 1,224,125

Alcohol, healing composition contg., 1,331,690
—, heater, chemical, made with, 1,506,322; 1,506,323
—, heating apparatus, catalytic made with, 1,202,199
—, hemoglobin, colloidal, made with, 1,392,849; 1,395,729
—, hematite, gangue, separation from of, using, 1,244,884
—, hemorrhoid remedy of ox gall and, 1,385,195
—, "heptachlor-caoutchouc" made with 1,234,381
—, herbs, sterilization of, using, 1,250,079
—, 3.4.5.3′4′.5′-hexa-amino-arsenobenzene made with, 1,156,044
—, hexamethylenetetramine tetraiodide solvent, 1,226,394
—, hexamethylenetetramine periodide solvent, 1,226,394
—, hexamethylenetetramine solvent, 1,170,391; 1,188,014
—, 2.4.6.2′-4′.6′-hexanitro-diphenyl sulfide made with, 1,135,792
—, hides, tanned, treated with, 1,453,800
—, hide tanned with, 1,285,144
—, higher, motor fuel contg., 1,431,259
—, hog cholera vaccine made with using, 1,246,059
—, hops, sterilization of, using, 1,250,079
—, hop beverages made with, 1,149,704
—, hops treated with, 1,464,520
—, horn, imitation, made with, 1,199,798; 1,245,476; 1,263,284
—, horn substitute made with, 1,241,738; 1,386,576
—, horse hair, artificial, made with, 1,181,859; 1,347,801
—, hydrocarbon, coating impervious to, made with, 1,124,012
—, —, olefin, separation from of, process for, 1,365,048
—, —, —, —, sulfuric acid for, 1,365, 048
—, —, refining of using, 1,515,733
—, —, separation from of, process for, 1,365,048
—, —, —, sulfuric acid for, 1,365,048
—, —, solidified, made using, 1,223,153; 1,484,190
—, hydrocupreine derivatives prepared with, 1,458,670
—, hydrocupreine derivatives soluble in, 1,458,670
—, hydrocupreine oxide made with, 1,458,670
—, hydrogen made with, 1,128,549; 1,211,395; 1,506,323
—, hydrogen and acetaldehyde from, 1,375,345; 1,376,665
—, hydrogen dioxide stabilized with, 1,128,637
—, hydrogenated compound made with, 1,425,882; 1,425,883; 1,425,884
—, hydrogenation, catalyst for, made with, 1,159,480; 1,251,202; 1,482,740
—, hydrogenation using, 1,239,867
—, (*b*-(*b*′-hydroxy-ethoxy)-ethyl)-trimethyl-ammonium bromide made with, 1,518,689
—, 2-(*p*-hydroxy-*m*-methoxy-phenyl)-6-methyl-quinoline-4-carboxylic acid made with, 1,138,936
Alcohol, 6-hydroxy-2-piperonyl-cinchoninic acid made with, 1,185,265
—, hydroiodic acid mfr. with iodine and, 1,380,951
—, hydroquinine *C*-*C*-diallylbarbituric acid made with, 1,261,235
—, hypnotic made with, 1,478,463
—, hypophysis extract made with, 1,296,063; 1,296,064
—, hypophysis extract, solubility of in, 1,296,063; 1,296,064
—, illuminating gas made with, 1,128,549
—, incendiary composition made with, 1,382,805; 1,382,806
—, incense made with, 1,216,710
—, indigo derivatives, reaction of with, 1,414,335
—, indophenol solvent, 1,465,853
—, indophenol-sulfonic acid solvent, 1,128,369; 1,128,370
—, ink contg., 1,422,957; 1,472,067; 1,506,082
—, ink, mimeograph, made with, 1,198,442
—, —, stamping, made with, 1,421,728
—, insecticide contg., 1,456,509; 1,515,364
—, —, insoluble soaps wetted by, 1,430,998
—, insulation made with, 1,162,092
—, insulation, cable, made with, 1,315,246
—, —, electric, made with, 1,156,452; 1,159,257; 1,185,074; 1,194.201; 1,228,371; 1,234.381; 1,236,460; 1,236,959; 1,241,738; 1,245,981; 1,285,889; 1,315,246; 1,332,860; 1,370,666; 1,383,740; 1,392,849; 1,398,143; 1,413,144; 1,413,145; 1,418,891; 1,439,056; 1,448,556; 1,470,637; 1,496,198
—, —, heat, made with, 1,185,074
—, iodine solvent, 1,177,014; 1,177,015; 1,329,148; 1,405,999
—, 3-iodo-1.2-propanediol made with, 1,230,185
—, iron, antique finish applied to, using, 1,470,182
—, —, cleaner for contg., 1,268,237
—, —, cleaning of, using, 1,211,138
—, iron, rust-proofing, with, 1,315,017
—, —, thorium alloy contg., electrodeposition of, using, 1,487,174
—, —, worn finish applied to, using, 1,470,182
—, —, zinc coated, coating of, using, 1,221,046
—, —, —, painting of, using, 1,221,046
—, iron chloride dissolved by, 1,383,864
—, iron, cleaning composition contg., 1,387,645
—, iron filings, coated, made with, 1,204,709
—, iron ore, gangue, separation from of using, 1,244,884
—, iron ore reduced with, 1,256,623
—, iron oxide reduced with, 1,256,623
—, iron sulfate-chloride dissolved by, 1,383,264
—, isoprene made with, 1,282,906
—, ivory, imitation, made with, 1,199,798; 1,245,476; 1,263,284
—, ivory substitute made with, 1,386,576; 1,482,357
—, jelly base made with, 1,513,615
—, kapok treated with, 1,422,242
—, kerosene made with, 1,282,906
—, kerosene, refining of, using, 1,515,733
—, —, solidified, made with, 1,484,190
—, ketone-aldehyde condensate made with, 1,482,929

Alcohol, ketone aldehyde condensate solvent, 1,482,929
—, knobs made with, 1,395,729
—, koji made with, 1,192,584; 1,263,817
—, lacquer made with, 1,181,859; 1,185,514; 1,187,231; 1,195,673; 1,234,381; 1,241,738; 1,245,981; 1,275,324; 1,347,801; 1,354,154; 1,377,677; 1,397,986; 1,480,016; 1,488,608; 1,496,198
—, lacquer remover made with, 1,381,485
—, lactic acid made with, 1,147,767; 1,147,768; 1,147,769; 1,147,770; 1,157,402; 1,177,746
—, lactose solutions, thickening of, using, 1,234,714
—, lake, colloidal, made with, 1,458,542
—, lamp, tungsten filament, made with, 1,205,002
—, lampblack, compacting of with, 1,263,082
—, larvæ, killing of, using, 1,250,079
—, lead, cork coated with, made using, 1,376,737
—, —, fabric coated with, made using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, paper, tissue, coated with, made using, 1,376,737
—, —, silk, coated with, made using, 1,376,737
—, —, wood coated with, made using, 1,376,737
—, lecithin made with, 1,150,691
—, lecithin solvent, 1,464,557
—, leprosy, substance for treatment of, made with, 1,250,345
—, leather made with, 1,200,146
—, leather, artificial, made with, 1,140,174; 1,141,224; 1,181,859; 1,190,806; 1,190,807; 1,217,123; 1,234,381; 1,242,622; 1,263,171; 1,275,324; 1,355,985; 1,392,849
—, —, —, dyeing of using, 1,186,052
—, —, —, made fireproof with, 1,309,581
—, —, —, permeabilized with, 1,427,754
—, —, —, viscose, made with, 1,251,237
—, —, coating of, made with, 1,165,222
—, —, dressing for, made with, 1,128,926; 1,158,962
—, —, enameled, repairing of, using, 1,226,146
—, —, finishing of, using, 1,234,494
—, —, finishing the edge of, using, 1,181,758
—, —, impregnation of, using, 1,158,965; 1,327,197; 1,388,169
—, —, patent, made with, 1,226,146
—, —, waterproofing of, using, 1,327,197; 1,388.169
—, leather dyeing composition contg., 1,345,234
—, leather substitute made using, 1,141,545; 1,256,240; 1,281,650; 1,482,336; 1,483,856
—, ligature, cat-gut, preserving of, using, 1,168,173; 1,168,174
—, —, surgical, sterilization of, using, 1,168,173; 1,168,174
—, light, pulsation of, record of, made with, 1,213,613; 1,213,614; 1,213,615; 1,213,616
—, light transforming composition made with, 1,188,655; 1,188,775; 1,188,776; 1,188,777; 1,196,144
—, limonite, gangue, separation from of, using, 1,244,884
—, linoleum made with, 1,225,954
—, linseed oil substitute made with, 1,244,777; 1,256,535; 1,256,536
—, liquids, fermented, recovery from of, 1,364,160
Alcohol, liquids cooled with, 1,435,142
—, liquid dam preparation contg., 1,147,091
—, liquor, removal from of, process for, 1,249,480
—, lithographic engraving made using, 1,129,901
—, lithographic ink contg., 1,406,837
—, lithographic solution contg., 1,433,111
—, lithopone, colloidal, made with, 1,458,542
—, lithium acetyl-salicylate made with, 1,129,953; 1,217,862
—, lithium chloride solvent, 1,455,428
—, *a*-lobeline made with, 1,505,181
—, logwood infusion contg., 1,334,722
—, lower aliphatic, acetic esters of, ethyl cellulose solvent contg., 1,464,169; 1,464,170
—, lubricant made with, 1,185,682; 1,226,165; 1,246,869; 1,500,193
—, lubricant, non-metallic gears, contg., 1,304,477
—, lubricating, of, decolorizing of, using, 1,509,326
—, lubricating oil made using, 1,509,325
—, lubricating oil, paraffin, recovery of from, using, 1,509,326
—, —, —, removal of from, using, 1,509,325
—, magnesium acetyl-salicylate made with, 1,217,862
—, magnesium *o*-benzyloxy-benzoate made with 1,491,779
—, magnesium chloride, solubility of in, 1,436,231
—, make-ready made with, 1,146,928
—, maline, water-proofing of using, 1,133,062
—, mannite made with, 1,175,747
—, *d*-mannose solvent, 1,478,588
—, mfr. of, acetic acid for, 1,245,818
—, —, air for, 1,392,886; Re-15,789; 1,517,968
—, —, albumin, animal, for, 1,227,374
—, —, —, vegetable, for, 1,227,374
—, —, aldehydes for, 1,247,629; 1,410,223
—, —, alkali for, 1,511,754
—, —, alkali carbonate for, 1,245,818; 1,253,055
—, —, alkali earth carbonate for, 1,253,055
—, —, alkali earth hydroxide for, 1,253,055
—, —, alkali hydroxide for, 1,201,850; 1,245,818; 1,253,055
—, —, alkyl formates for, 1,302,011
—, —, alkyl halide for, 1,253,055
—, —, amines for, 1,511,754
—, —, ammonium carbonate for, 1,245,818; 1,511,754
—, —, ammonium hydroxide for, 1,245,818
—, —, ammonium phosphate for, 1,511,754
—, —, ammonium sulfate for, 1,227,374; 1,245,818; 1,511,754
—, —, amyl alcohol for, 1,247,629
—, —, apparatus for, 1,139,507; 1,140,502; 1,140,882; 1,165,368; 1,168,785; 1,210,250; 1,225,226; 1,339,489; 1,362,875; 1,374,928; 1,392,886; Re-15,789; 1,472,119; 1,499,363; 1,500,080
—, —, asbestos for, 1,201,850
—, —, asphalt for, 1,517,968
—, —, bacteria for, 1,315,585
—, —, bacteria, Fitz type, for, 1,315,585
—, —, —, lactic acid for, 1,511,754
—, —, —, *Bacillus macerans*, for, 1,169,322
—, —, —, *Bacillus mesentericus* for, 1,227,374

Alcohol, mfr. of, bacteria, *Bacillus subtilis*, for, 1,227,374
—, —, bacteria enzymes for, 1,227,374
—, —, bagasse for, 1,170,487
—, —, barium chloride for, 1,511,754
—, —, bark for, 1,202,317
—, —, barley for, 1,227,374
—, —, benzene for, 1,365,046
—, —, berry for, 1,472,119
—, —, brass as catalyst for, 1,517,968
—, —, calcium acetate for, 1,298,476; 1,298,477; 1,298,478; 1,298,479; 1,298,480; 1,298,481
—, —, calcium carbonate for, 1,253,055; 1,283,183
—, —, calcium chloride for, 1,511,754
—, —, calcium formate for, 1,221,667
—, —, calcium hydroxide for, 1,196,290; 1,202,317; 1,253,055
—, —, calcium oxide for, 1,165,368; 1,202,317
—, —, carbohydrate for, 1,140,882; 1,283,183
—, —, carbon, activated, as catalyst for, 1,500,080
—, —, —, decolorizing, for, 1,511,754
—, —, carbon bisulfide for, 1,365,046
—, —, carbon dioxide for, 1,201,850
—, —, carbon dioxide as catalyst for, 1,392,886; Re-15,789
—, —, carbon monoxide for, 1,201,850
—, —, casein for, 1,227,374
—, —, cellulose for, 1,140,882; 1,218,954; 1,241,789; 1,348,731; 1,362,875; 1,374,928
—, —, cellulose, sulfite, by-product, for, 1,153,834
—, —, cellulose soda liquor for, 1,196,290; 1,396,028
—, —, cellulose soda-sulfate liquor for, 1,499,363
—, —, cellulose sulfate liquor for, 1,196,290
—, —, cellulose sulfite liquor for, 1,130,192; 1,139,507; 1,143,714; 1,153,834; 1,155,256; 1,175,423; 1,202,317; 1,269,287; 1,298,476; 1,298,477; 1,298,478; 1,298,479; 1,298,480; 1,298,481; 1,396,028; 1,445,603; 1,510,195; 1,510,196
—, —, cereal for, 1,245,818
—, —, cerium for, 1,201,850
—, —, cerium compound for, 1,201,850
—, —, cerium oxide for, 1,201,850
—, —, chalk for, 1,169,322; 1,283,183
—, —, charcoal, cocoanut, as catalyst for, 1,500,080
—, —, chlorine for, 1,221,667
—, —, chloroform for, 1,365,046
—, —, chromium for, 1,201,850
—, —, chromium compounds for, 1,201,850
—, —, chromium oxide for, 1,201,850
—, —, chromium oxide as catalyst for, 1,517,968
—, —, cobalt for, 1,201,850
—, —, cobalt as catalyst for, 1,247,629
—, —, cobalt compound for, 1,201,850
—, —, cobalt oxide for, 1,201,850
—, —, coke for, 1,365,046
—, —, copper, iron coated with, for, 1,201,850
—, —, copper as catalyst for, 1,500,080; 1,517,968
—, —, copper oxide as catalyst for, 1,517,968
—, —, corn for, 1,169,322; 1,227,374; 1,245,818; 1,315,585
—, —, corn fibrin for, 1,227,374
—, —, corn stalks for, 1,510,855
Alcohol, mfr. of, cotton for, 1,218,954
—, —, cotton stalks for, 1,510,855
—, —, cyclohexanol for, 1,247,629
—, —, cytases for, 1,227,374
—, —, diastatic substance for, 1,245,818
—, —, diatomaceous earth for, 1,201,850; 1,510,195; 1,510,196
—, —, distillery slop for, 1,283,183
—, —, durra for, 1,315,585
—, —, enzymes for, 1,210,250; 1,227,374
—, —, enzyme, proteolytic for, 1,227,374
—, —, ether for, 1,365,046
—, —, ethyl alcohol for, 1,247,629
—, —, ethylene for, 1,385,515; Re-15,211
—, —, fabric for, 1,510,195
—, —, fat for, 1,517,968
—, —, ferment, butyric for, 1,283,183
—, —, —, *Bacillus* butyricus for, 1,283,183
—, —, —, lactic, for, 1,283,183
—, —, fermentation process for, 1,140,882; 1,510,195; 1,510,196
—, —, flax for, 1,315,585
—, —, formaldehyde for, 1,227,374
—, —, formate for, 1,221,667
—, —, fructose for, 1,511,754
—, —, garbage for, 1,140,502; 1,165,368; 1,210,250; 1,440,727
—, —, gasolene for, 1,221,267; 1,365,045; 1,365,046
—, —, gasolene, casing head, for, 1,221,667
—, —, —, chlorinated, for, 1,221,667
—, —, gilsonite for, 1,517,968
—, —, glucose for, 1,210,250; 1,374,928; 1,511,754
—, —, glucose and mannitic leaven for, 1,175,747
—, —, glycerol for, 1,247,629
—, —, grain for, 1,245,818; 1,472,119
—, —, gravel for, 1,365,046
—, —, grease for, 1,517,968
—, —, gun-powder mill refuse for, 1,165,368
—, —, hydrocarbon for, 1,365,043; 1,365,044; 1,483,835; 1,500,080
—, —, hydrocarbon, olefin, for, 1,365,044; 1,365,046; 1,483,835; 1,517,968
—, —, —, unsaturated, for, 1,365,043
—, —, —, unsaturated, and sulfuric acid for, 1,365,043
—, —, hydrocellulose for, 1,218,954
—, —, hydrochloric acid for, 1,218,954; 1,227,374; 1,283,183; 1,362,875; 1,374,928
—, —, hydrogen for, 1,201,850; 1,247,629; 1,283,183
—, —, hydrosulfites for, 1,511,754
—, —, hyposulfites for, 1,511,754
—, —, iron, copper coated, for, 1,201,850
—, —, iron as catalyst for, 1,247,629; 1,517,968
—, —, iron compounds for, 1,511,754
—, —, iron hydroxide for, 1,196,290
—, —, iron sulfate for, 1,511,754
—, —, iron(ous) sulfate for, 1,511,754
—, —, iron vanadate as catalyst for, 1,517,968
—, —, kelp for, 1,168,785
—, —, kerosene for, 1,517,968
—, —, ketones for, 1,247,629; 1,283,183
—, —, kieselguhr for, 1,510,195; 1,510,196
—, —, koji for, 1,245,818
—, —, koji extract for, 1,245,818
—, —, ligno-cellulose for, 1,218,954

Alcohol, mfr. of, lime for, 1,165,368; 1,339,489; 1,511,754
—, —, magnesia for, 1,201,850; 1,511,754
—, —, magnesium acetate for, 1,511,754
—, —, magnesium chloride for, 1,511,754
—, —, magnesiumhydroxide for, 1,196,290
—, —, magnesium sulfate for, 1,511,754
—, —, malt for, 1,210,250; 1,245,818
—, —, maltose for, 1,511,754
—, —, manganese for, 1,201,850
—, —, manganese compound for, 1,201,850
—, —, manganese oxide for, 1,201,850
—, —, manganese sulfate for, 1,511,754
—, —, mannitic leaven and glucose for, 1,175,747
—, —, mercury vapor light for, 1,140,882
—, —, methyl alcohol for, 1,221,667
—, —, molasses for, 1,210,250; 1,283,183; 1,376,662; 1,511,754
—, —, molasses, potassium compounds from waste resulting from, 1,342,737
—, —, molybdenum for, 1,201,850
—, —, molybdenum compound for, 1,201,850
—, —, molybdenum compound as catalyst for, 1,517,968
—, —, molybdenum oxide for, 1,201,850
—, —, nickel as catalyst for, 1,247,629; 1,283,183
—, —, nickel carbonate as catalyst for, 1,247,629
—, —, nickel oxide as catalyst for, 1,247,629; 1,283,183
—, —, nipa palm sap for, 1,256,758
—, —, nitric acid as catalyst for, 1,392,886; Re-15,789
—, —, nitrogen oxides as catalyst for, 1,392,886; Re-15,789
—. —, nut for, 1,472,119
—, —, oats for, 1,169,322; 1,315,585
—, —, oil gas for, 1,517,968
—, —, olefines for, 1,365,046; 1,407,770; 1,412,233
—, —, osmium for, 1,201,850
—, —, osmium compound for, 1,201,850
—, —, osmium oxide for, 1,201,850
—, —, oxycellulose for, 1,218,954
—, —, oxygen for, 1,392,886; Re-15,789; 1,500,080; 1,517,968
—, —, oxygen compounds, gaseous, as catalyst for, 1,392,886; Re-15,789
—, —, palladium for, 1,201,850
—, —, palladium, colloidal, for, 1,283,183
—, —, palladium as catalyst for, 1,283,183
—, —, palladium compound for, 1,201,850
—, —, palladium oxide for, 1,201,850
—, —, peat for, 1,510,195
—, —, petroleum for, 1,221,667; 1,365,043; 1,365,044; 1,517,968
—, —, phenols for, 1,247,629
—, —, phosphates for, 1,511,754
—, —, phosphoric acid for, 1,218,954; 1,245,818; 1,283,183; 1,517,968
—, —, pine wood for, 1,472,119
—, —, plant for, 1,472,119
—, —, potassium carbonate for, 1,201,850
—, —, potassium formate for, 1,221,667
—, —, potassium nitrate for, 1,165,368
—, —, potassium sulfate for, 1,511,754
—, —, potato for, 1,169,322; 1,315,585
—, —, potato peelings for, 1,226,852
Alcohol, mfr. of, process for, 1,139,507; 1,140,502; 1,140,882; 1,153,834; 1,155,256; 1,165,368; 1,168,785; 1,169,322; 1,170,487; 1,196,290; 1,201,850; 1,202,317; 1,210,250; 1,218,954; 1,221,667; 1,227,374; 1,241,789; 1,245,818; 1,247,629; 1,253,055; 1,283,183; 1,339,489; 1,362,875; 1,365,043; 1,365,044; 1,365,046; 1,374,928; 1,392,886; Re-15,789; 1,438,123; 1,459,699; 1,472,119; 1,483,835; 1,499,363; 1,500,080; 1,502,896; 1,510,195; 1,510,196; 1,510,855; 1,511,754; 1,517,968
—, —, pumice for, 1,201,850
—, —, pyrosulfuric acid for, 1,365,044
—, —, rice for, 1,227,374; 1,315,585
—, —, rye for, 1,169,322; 1,227,374; 1,315,585
—, —, sawdust for, 1,140,502; 1,202,317; 1,310,376; 1,510,195; 1,510,196
—, —, seed for, 1,472,119
—, —, sewage sludge for, 1,165,368
—, —, shrub for, 1,472,119
—, —, silver chromate as catalyst for, 1,517,968
—, —, sodium acetate for, 1,511,754
—, —, sodium bicarbonate for, 1,511,754
—, —, sodium carbonate for, 1,227,374; 1,253,055; 1,511,754
—, —, sodium chloride for, 1,165,368; 1,227,374; 1,245,818
—, —, sodium formate for, 1,221,667
—, —, sodium hydroxide for, 1,196,290; 1,201,850; 1,253,055
—, —, sodium hyposulfite for, 1,511,754
—, —, sodium nitrate for, 1,165,368
—, —, sodium phosphate for, 1,511,754
—, —, sodium sulfate for, 1,227,374
—, —, sodium sulfite for, 1,511,754
—, —, soya bean for, 1,227,374
—, —, soya bean cake for, 1,227,374
—, —, starch, saccharified, for, 1,511,754
—, —, steam for, 1,210,250; 1,365,043; 1,517,968
—, —, straw for, 1,510,855
—, —, saccharose for, 1,511,754
—, —, sugars for, 1,310,376; 1,511,754
—, —, sugar, grape, for, 1,511,754
—, —, —, invert, for 1,511,754
—, —, sugar solutions for, 1,510,195; 1,510,196
—, —, sulfites for, 1,511,754
—, —, sulfite liquor from, 1,364,418
—, —, sulfoxylates for, 1,511,754
—, —, sulfur oxides as catalyst for, 1,392,886; Re-15,789
—, —, sulfuric acid for, 1,218,954; 1,245,818; 1,283,183; 1,339,489; 1,365,043; 1,365,044; 1,365,046; 1,374,928; 1,483,835; 1,510,195; 1,517,968
—, —, sulfuric acid, fuming, for, 1,365,044
—, —, sulfurous acid for, 1,245,818; 1,374,928; 1,510,195
—, —, syrup for, 1,511,754
—, —, titanium for, 1,201,850
—, —, titanium compound for, 1,201,850
—, —, titanium oxide for, 1,201,850
—, —, toluene for, 1,365,046
—, —, ultra-violet ray for, 1,140,882
—, —, vanadium oxide as catalyst for, 1,517,968
—, —, vegetable matter for, 1,502,896; 1,510,855
—, —, waste from glycerol recovered from 1,423,042

Alcohol, mfr. of, waste from glycerol recovered from, utilization of, 1,396,006
—, —, —, *see also Distillery waste*
—, —, water for, 1,365,046
—, —, wheat for, 1,227,374; 1,315,585
—, —, whey for, 1,283,183
—, —, whiskey, sour mash, for, 1,283,183
—, —, wood for, 1,202,317; 1,218,954; 1,241,789; 1,310,376; 1,339,489; 1,374,928; 1,472,119
—, —, charcoal, wood for, waste products producing, 1,369,428
—, —, —, hard, for 1,241,789
—, —, wood grinding waste water for, 1,339,489
—, —, wood shavings for, 1,510,195
—, —, yeast for, 1,139,507; 1,140,882; 1,510,195; 1,510,196; 1,511,754
—, —, yeast, boiled, for, 1,227,374
—, —, —, ultra-violet ray immune, for, 1,140,882
—, —, yeast makers slop for, 1,283,183
—, —, zinc for, 1,201,850
—, —, zinc carbonate for, 1,283,183
—, —, zinc compound for, 1,201,850
—, —, zinc hydroxide for, 1,196,290
—, —, zinc oxide for, 1,201,850
—, marble, coloring of using, 1,158,730
—, —, imitation, made with, 1,199,798; 1,245,476
—, marble stained with, 1,293,832
—, mastic, colloidal, made with, 1,392,849
—, match substitute contg., 1,422,698
—, material, resinous, dissolved in, 1,305,790
—, meal, colloidal, made with, 1,392,849
—, meat, sterilization of, using, 1,250,079
—, meat-extract treated with, 1,442,340
—, medical compound contg., 1,389,677
—, medicated pencil made with, 1,280,580
—, medicinal compound made with, 1,425,882; 1,425,883; 1,425,884
—, medicine contg., 1,455,485
—, medicine, sterilization of, using, 1,250,079
—, membranes made with, 1,421,341
—, mending composition made with, 1,389,084
—, menses increasing extract from corpus-luteum made with, 1,318,698; 1,318,699
—, mercury(ic) chloride removed from organic compounds by, 1,455,495
—, mercury(ic) potassium iodide solvent, 1,202,931
—, metal, acid-proof coating for, made with 1,207,845
—, —, cleaner for, contg., 1,268,237
—, —, cleaning of, using, 1,211,138
—, —, coating for, made with, 1,124,012; 1,165,222; 1,185,074
—, —, colloidal, precipitated by, 1,460,012
—, —, cork coated with, made using, 1,376,737
—, metal, etching of with, 1,276,599
—, —, fabric coated with, made using, 1,376,737
—, —, glass, joining of and, using, 1,167,798
—, —, paper, tissue, coated with, made using 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, porcelain, joining of and, using, 1,167,798
—, —, silk coated with, made using, 1,376,737
—, —, wood coated with, made using 1,376,737
—, metal cleaning composition contg., 1,387,645; 1,398,507
—, metals cut with hydrogen and, 1,425,856
Alcohol, metal gaskets, sealing of using, 1,341,952
—, metal oxide reduced with, 1,256,623
—, metallic oxides reduced by vapors of, 1,400,247
—, metaphosphoric acid solvent, 1,211,138
—, methane made with, 1,128,549; 1,211,395
—, methoxybenzyl cellulose solvent, 1,454,960
—, 8-methoxy-2-piperonyl-cinchoninic acid made with, 1,185,265
—, methyl acetate made with, 1,459,971
—, methyl acetate recovered by, 1,395,940
—, methyl alcohol made with, 1,459,971
—, *a*(*a'*-methylamino-ethyl)-benzyl alcohol made with, 1,356,877
—, *methylated, see Alcohol, denatured*
—, —, *see also Methylated spirit*
—, methylbenzyl cellulose solvent, 1,454,960
—, methyl cellulose solvent, 1,454,959; 1,454,960; 1,454,961; 1,505,044
—, methyl ethyl cellulose solvent, 1,454,959;
—, 1-methyl-3-nitro-4-isopropyl-benzene made with, 1,306,512
—, 4-methyl-2-trimethylacetoxy-benzoic acid solvent, 1,338,297
—, *methyl, see Methyl alcohol*
—, micro-organisms, altering characteristics of, using, 1,250,079
—, milk, artificial, made with, 1,200,782; 1,297,668
—, —, sterilization of, using, 1,250,079
—, —, thickening of, using, 1,234,714
—, milk analysis, with, 1,391,965
—, milk vinegar mfr. with, 1,410,809
—, molasses treated with, 1,401,433
—, molded article made with, 1,125,906; 1,146,391; 1,167,468; 1,170,391; 1,185,074; 1,241,738; 1,342,067; 1,353,152; 1,354,154; 1,358,394; 1,370,666; 1,392,849; 1,395,729; 1,398,143; 1,411,425; 1,427,690; 1,439,056; 1,442,420; 1,448,556; 1,470,637; 1,482,357
—, molybdenum filament made with, 1,132,523; 1,208,629
—, monohydric, formaldehyde preserved using, 1,481,849
—, —, paraformaldehyde solvent contg., 1,481,849
—, Montan wax extracted with, 1,437,775
—, moths, compound for protection from made with, 1,480,289
—, mother-of-pearl, imitation, made with, 1,434,157
—, motion picture screen made using, 1,149,940
—, motor fuel contg., 1,361,153; 1,363,870; 1,377,992; 1,378,858; 1,384,946; 1,388,531; 1,399,227; 1,420,006; 1,420,007; 1,420,622; 1,423,048; 1,423,049; 1,423,050; 1,428,885; 1,453,374
—, motor fuel contg. ether water and, 1,338,982
—, motor fuel contg. hydrocarbons and, 1,372,465
—, mucilage substitute made with, 1,158,962
—, muffles made with, 1,450,140
—, naphtha, refining of using, 1,515,733
—, —, solidified, made with, 1,484,190
—, 1.2-naphthothioindoxyl made with, 1,492,054
—, *b*-naphthylamine, oleic acid, compound of and, made with, 1,475,477

Alcohol, 2-(1′-naphthyl)-cinchoninic acid made with, 1,197,462; Re-14,216
—, 2-(2′-naphthyl)-cinchoninic acid made with, 1,197,462; Re-14,216
—, net, water proofing of using, 1,133,062
—, Nichols invisible court plaster contg., 1,204,812
—, nickel catalyst made with, 1,251,202; 1,329,323; 1,482,740
—, nickel catalyst dried with, 1,431,982
—, nicotin extracted with, 1,253,497
—, nitrated compound made with, 1,425,882; 1,425,883; 1,425,884
—, *p*-nitro acetyl amino cymene dissolved by, 1,306,512
—, nitrobenzene removed from dibenzanthrone with, 1,464,598
—, nitro compounds purified with, 1,309,559
—, nitrogen made with, 1,211,395
—, nitroglycerol solvent, 1,179,920
—, nitrotoluene purified with, 1,309,559
—, nitroxylene purified with, 1,309,599
—, ocotillo gum made with, 1,262,990
—, ocotillo gum solvent, 1,254,632; 1,290,795
—, oil, drying, made with, 1,425,882; 1,425,883; 1,425,884
—, —, extraction of from hops with, 1,319,984
—, —, extraction of from wood with, 1,264,551
—, —, hydrogenated, purification of using, 1,152,023
—, —, mineral, refined using, 1,286,179
—, —, sterilization of, using, 1,250,079
—, —, vulcanized, made with, 1,315,246
—, oil cloth made with, 1,225,954
—, oil cloth, imitation, made with, 1,140,174; 1,355,985
—, oils extracted by, 1,425,882; 1,425,883; 1,425,884; 1,425,885
—, oils purified with, 1,371,342; 1,447,898
—, olefin made with, 1,282,906
—, olefin, celluloid, solvent for, made with, 1,486,647
—, —, cellulose nitrate, solvent for, made with, 1,486,647
—, —, mfr. of, hydrocarbon for, 1,486,647
—, —, —, hydrocarbon, olefin, for, 1,486,647
—, —, —, kerosene for, 1,486,647
—, —, —, lubricating oil for, 1,486,647
—, —, —, petroleum for, 1,486,647
—, —, —, process for, 1,486,647
—, —, —, sulfuric acid for, 1,486,647
—, olefin glycol made with, 1,259,757; 1,259,758
—, oleic acid, acetamide compound of and, made with, 1,475,477
—, —, *p*-aminophenol, compound of and, made with, 1,475,477
—, —, aniline, compound of and, made with, 1,475,477
—, —, benzidine, compound of and, made with, 1,475,477
—, —, diphenylamine, compound of and, made with, 1,475,477
—, —, *b*-naphthylamine compound of and, made with, 1,475,477
—, —, phenylenediamine, compound of and, made with, 1,475,477
Alcohol, oleic acid, quinoline, compound of and, made with, 1,475,477
—, —, *o*-toluidine, compound of and, made with, 1,475,477
—, —, urea, compound of and, made with, 1,475,477
—, —, xylidine, compound of and, made with, 1,475,477
—, oleoresin, extraction of from wood with, 1,264,551
—, opium extract made with, 1,243,729
—, ore oxide reduced with, 1,256,623
—, overlay made with, 1,146,928
—, oxanthranol dissolved in, 1,293,610
—, oxidation of, air for, 1,345,323
—, —, catalyst for, 1,146,363
—, —, —, mfr. of, process for, 1,345,323
—, —, hopcalite as catalyst for, 1,345,323
—, —, oxygen for, 1,345,323
—, —, process for, 1,345,323
—, oxidizing, catalyst for, 1,345,323
—, —, copper for, 1,464,153
—, oxygen burned out of food containers by, 1,459,232
—, oxymethylene phosphorus compound precipitated by, 1,290,971
—, ozokerite made using, 1,513,745; 1,513,746
—, ozonizing, 1,406,058
—, packing made with, 1,185,074; 1,497,782
—, paint made with, 1,145,186; 1,164,036; 1,164,037; 1,165,222; 1,167,264; 1,226,889; 1,234,816; 1,241,738; 1,242,161; 1,244,777; 1,256,535; 1,256,536; 1,256,537; 1,408,325; 1,476,016
—, paint, anti-fouling, made with, 1,145,186; 1,456,509
—, —, cement made with, 1,256,535
—, —, concrete made with, 1,256,535
—, —, undercoating composition for, made with, 1,425,510
—, paint remover contg., furfural and, 1,381,485
—, paint remover made with, 1,129,770; 1,130,499; 1,133,639; 1,165,148; 1,173,628; 1,181,361; 1,189,803; 1,273,307; 1,274,430; 1,281,156; 1,328,080; 1,330,387; 1,381,485; 1,474,984; 1,483,587
—, paint skins, treatment of with, 1,279,888
—, paint thinner made with, 1,246,537
—, paint waste, treatment of with, 1,279,888
—, painted surface, finishing of, using, 1,481,433
—, palmitic acid solvent, 1,342,590
—, papaverine nitrite made with, 1,468,607
—, papaverine solvent, 1,468,607
—, paper made with, 1,153,883; 1,283,422; 1,509,273
—, paper, acid-proof, made with, 1,233,334
—, —, alkali-proof, made with, 1,233,334
—, —, aluminum coated, made using, 1,376,737
—, —, coating for made with, 1,141,224 1,185,074
—, —, gold coated, made using, 1,376,737
—, —, gold leaf, attaching of to, using, 1,374,492
—, —, grease-proof, made with, 1,233,334
—, —, impregnation of, using, 1,158,965
—, —, lead coated, made using, 1,376,737
—, —, metal coated, made using, 1,376,737
—, —, photographic, made with, 1,126,872

Alcohol, paper made with, photographic, printing, made from, 1,299,479
—, —, —, transfer, made with, 1,299,479
—, —, sizing of, using, 1,211,288
—, —, tissue, aluminum coated, made using, 1,376,737
—, —, —, gold coated, made using, 1,376,737
—, —, —, lead coated, made using, 1,376,737
—, —, —, metal coated, made using, 1,376,737
—, —, —, zinc coated, made using, 1,376,737
—, —, translucent, made with, 1,345,184; 1,419,379; 1,419,750
—, —, transparent coating for, applied with, 1,277,904
—, —, watermarked, imitation, made with, 1,479,337
—, —, waterproofing of, made with, 1,135,356; 1,141,224; 1,233,334
—, —, zinc coated, made using, 1,376,737
—, paper-board made with, 1,283,422
—, paper colored with solutions of dyes in, 1,384,290
—, paper gaskets, sealing of using, 1,341,952
—, paper impregnated with composition contg., 1,289,007
—, paper pulp made with, 1,153,934
—, paper tube made with, 1,135,356
—, paracoumarone solvent, 1,191,801; 1,332,860
—, paraffin made with, 1,513,745; 1,513,746
—, paraffin, lubricating oil, recovery from of, using, 1,509,326
—, —, —, removal from of, using, 1,509,325
—, —, petroleum, removal from of, using, 1,509,325
—, —, —, recovery from of, using, 1,509,326
—, —, wax distillate, removal from of, using, 1,509,325
—, paraffin solvent, 1,277,904
—, paste-board made with, 1,153,883
—, pearls, artificial, mfr. with, 1,438,395
—, pectin, aluminum hydroxide, removal of from, using, 1,497,884
—, pectin product made with, 1,497,884; 1,513,615
—, peroxidase made with, 1,324,752
—, petroleum, liquid, made with, 1,240,792
—, petroleum, decolorizing of, using, 1,509,326
—, —, paraffin, recovery of from, using, 1,509,326
—, —, —, removal from of, using, 1,509,325
—, —, sludge sulfonic acid removed from with, 1,286,179
—, petroleum, solidified, made with, 1,484,190
—, petroleum products, refining of, using, 1,515,733
—, petroleum refined using, 1,163,025; 1,233,700; 1,286,179
—, pharmaceutical product made with, 1,218,209
—, phenol aldehyde condensate made with, 1,143,714; 1,187,231; 1,188,014; 1,225,748; 1,225,749; 1,342,067; 1,354,154; 1,358,394; 1,369,352; 1,370,666; 1,414,139; 1,429,265; 1,439,056; 1,442,420
—, phenol aldehyde condensate, cement for, made with, 1,424,738
—, —, colloidal, made with, 1,392,849
—, —, molding with, 1,353,152
Alcohol, phenol aldehyde condensate binder made with, 1,261,615
—, phenol aldehyde condensate lacquer made with, 1,261,615
—, phenol aldehyde condensate solvent, 1,125,906; 1,133,083; 1,146,300; 1,150,642; 1,160,363; 1,160,364; 1,170,391; 1,187,231; 1,188,014; 1,211,227; 1,213,051; 1,213,144; 1,213,726; 1,225,748; 1,225,749; 1,225,750; 1,236,460; 1,259,472; 1,259,473; 1,261,615; 1,277,904; 1,309,581; 1,347,668; 1,370,666; 1,377,519; 1,398,143; 1,398,144; 1,401,633; 1,411,425; 1,414,139; 1,418,891; 1,429,265; 1,436,158; 1,439,056; 1,440,097; 1,441,133; 1,483,368
—, phenol aldehyde condensate varnish made with, 1,261,615
—, phenol-choleic acid solvent, 1,252,212
—, phenol condensation product solvent, 1,429,267
—, phenol furaldehyde condensate made with, 1,377,519
—, phenol ketone condensate made with, 1,448,556
—, phenolphthalein solvent, 1,446,637
—, phenol solvent, 1,396,483
—, phenylenediamine, oleic acid, compound of and, made with, 1,475,477
—, phenylethyl cellulose solvent, 1,454,960
—, 2-phenyl-quinoline-4.6-dicarboxylic acid, 6-ethyl ester made with, 1,138,937
—, 2-phenylquinolyl-4-aminoethanol dihydrochloride crystallized from, 1,434,306
—, 2-phenylquinolyl-4-diethylaminoethanone monohydrobromide crystallized from, 1,434,306
—, phenyl-stibnic acid made with, 1,260,707
—, phenyl-stibnic acid, sodium salt of, made with, 1,260,707
—, phenyl-stibnic oxychloride made with, 1,260,707
—, phonograph master record made with, 1,448,792
—, phonograph record made with, 1,151,849; 1,158,964; 1,167,468; 1,175,728; 1,183,358; 1,202,638; 1,328,371; 1,470,637; 1,492,023
—, phonograph record resurfacing mixture contg., 1,378,344
—, phonograph reproducer diaphragm prepared with, 1,412,619
—, phosphoric acid determined with, 1,462,840
—, phosphoric acid precipitated by, 1,367,597
—, phosphoric acid solvent, 1,211,138
—, phosphorous compound, green plants, made with, 1,313,014
—, phosphorus solvent, 1,205,002
—, photoengraving process for, 1,285,015
—, photograph, colored, made using, 1,248,139
—, photographic emulsion sensitized with dyes dissolved by, 1,391,310
—, photographic image, toning of, using, 1,499,749
—, photographic negatives developed with, 1,417,791
—, photographic print paper, transfer, made using, 1,228,680

Alcohol, photographic screen, colored, made with, 1,161,731
—, photographic sensitizing preparation contg., 1,126,872
—, photographic solution contg., 1,300,729
—, photography, color, using, 1,128,389; 1,278,668
—, —, —, film for, made with, 1,477,880; 1,477,881; 1,477,882; 1,477,883
—, —, —, processes for, using, 1,191,034
—, piano keys made with, 1,185,074
—, pigment, chromium, colloidal, made with, 1,458,542
—, —, cobalt, colloidal, made with, 1,458,542
—, —, colloidal, made with, 1,458,542
—, —, iron, colloidal, made with, 1,458,542
—, —, lead, colloidal, made with, 1,458,542
—, —, nickel, colloidal, made with, 1,458,542
—, —, zinc, colloidal, made with, 1,458,542
—, pine oil made using, 1,505,438
—, pine oil, soluble, made with, 1,503,253
—, pine resin distillate in, 1,469,148
—, pipe mending composition made with, 1,389,084
—, piperylene made with, 1,282,906
—, pitch, fireproofing of, using, 1,388,829
—, plant, phosphorus reserve compound of, made with, 1,313,014
—, plaster, air permeable, made with, 1,180,775
—, plastic made with, 1,158,960; 1,173,337; 1,185,074; 1,191,801; 1,194,201; 1,234,381; 1,241,738; 1,263,284; 1,265,855; 1,317,721; 1,357,614; 1,365,607; 1,386,576; 1,389,084; 1,427,690; 1,437,792; 1,440,006; 1,456,369; 1,470,637; 1,474,830; 1,482,929; 1,488,608; 1,497,782; 1,518,254
—, plastic, casting of using, 1,515,150
—, plate, photographic, made with, 1,285,015
—, —, —, colored, made with, 1,173,429
—, —, —, color-sensitizing of with, 1,320,176
—, plate printing with, 1,276,599
—, platen renewer contg., 1,373,559
—, polish contg., 1,123,709; 1,166,494; 1,202,495; 1,278,172; 1,295,584; 1,305,684; 1,314,482; 1,325,686; 1,342,862; 1,350,537; 1,352,015; 1,356,075; 1,362,907; 1,376,228; 1,383,427; 1,410,041; 1,441,337
—, polish, furniture, contg., 1,309,171
—, polishing composition contg., 1,342,862; 1,356,075; 1,382,127
—, poly-acid, insulation, electric, made with, 1,512,024
—, —, molded article made with, 1,512,024
—, —, plastic made with, 1,512,024
—, polyatomic, silk, artificial, viscose, precipitation of, using, 1,393,199; 1,509,338
—, —, viscose precipitating baths contg., 1,393,199
—, polybasic, varnish base mfr. from, 1,422,861
—, polyhydric, alkyl esters made with, 1,478,498
—, —, cellulose ether made with, 1,502,379
—, —, esters made with, 1,478,498
—, —, insulation, electric, made with, 1,141,944; 1,424,137
—, —, mfr. of, process for, 1,477,113
—, —, molded article made with, 1,424,137; 1,443,936
Alcohol, polyhydric, polymerization of, process for, 1,126,467
—, —, record, phonograph, made with, 1,424,137
—, —, resin, artificial, made with, 1,141,944; 1,424,137; 1,443,936
—, —, varnish made with, 1,141,944; 1,424,137
—, polyvalent, dyestuff made with, 1,440,566
—, —, dyestuffs chromed in presence of, 1,440,566
—, porcelain, metal, joining of and using, 1,167,798
—, potassium acetate dissolved by, 1,360,046
—, potassium acetyl-salicylate made with, 1,217,862
—, potassium chloride made with, 1,321,632
—, potassium chloride, boric acid, separation of from, using, 1,232,156
—, potassium compounds obtained from, 1,376,662
—, potassium ethylxanthogenate from, 1,440,961
—, potassium hydroxide solution contg., flotation of ores with, 1,425,327
—, potassium phosphate (KH_2PO_4) made with, 1,150,899; 1,150,900
—, potato chips made with, 1,199,124
—, potato flour made with, 1,199,124
—, powder, propellent, made with, 1,354,442; 1,354,640; 1,357,865
—, —, smokeless, made with, 1,212,770; 1,390,740
—, —, —, removal from of, process for, 1,237,551
—, preservative of oil of garlic and, 1,292,401
—, primary, cotton mercerized with, 1,316,958
—, —, mfr. of, alkyl magnesium halide for, 1,315,619
—, —, —, aryl magnesium halide for, 1,315,619
—, —, —, ether for, 1,315,619
—, —, —, ethylene oxide for, 1,315,619
—, —, —, magnesium alkyl halide for, 1,315,619
—, —, —, magnesium aryl halide for, 1,315,619
—, —, —, process for, 1,315,619
—, printers blanket made with, 1,148,381; 1,237,493
—, printers ink contg., 1,420,086
—, printers ink solvent contg., 1,406,183
—, printing matrix made with, 1,377,512
—, printing plate made with, 1,219,332; 1,370,666; 1,377,503; 1,377,512; 1,377,519; 1,401,633; 1,453,259; 1,519,004
—, printing plate, matrix for, blanket for making of, made with, 1,237,493
—, propellant powder made with, 1,336,463
—, *propyl, see Propyl alcohol*
—, *iso*-propylallylbarbituric acid solvent, 1,444,802
—, propylene made with, 1,282,906
—, propylene glycol made with, 1,259,757; 1,259,758
—, proteid made with, 1,275,324
—, proteid silver made with, 1,272,987
—, protein, colloidal, made with, 1,392,849; 1,395,729
—, puncture closing composition contg., 1,302,416
—, pungent compound made with, 1,329,272; 1,503,631
—, purification of, carbon, decolorizing for, 1,133,049

Alcohol, purification of, process for, 1,365,047
—, —, sulfuric acid for, 1,365,047
—, purifying, 1,365,048
—, —, sawdust for, 1,413,864
—, —, sulfuric acid for, 1,365,047
—, pyorrhea, treatment of, composition for, contg., 1,510,785
—, pyorrhea remedy contg., 1,466,578
—, pyorrhea treated using, 1,516,140
—, pyrophosphoric acid solvent, 1,211,138
—, pyrotechnic made with, 1,265,205
—, quinine, veronal, compound of and, made with 1,475,477
—, record, disk, made with, 1,315,137
—, —, phonograph, made with 1,146,391; 1,170,391; 1,234,450; 1,370,666; 1,404,792; 1,456,369
—, —, —, dyeing of using, 1,248,468
—, —, —, label for, made with, 1,347,668
—, —, sound reproducing, made with, 1,342,326; 1,398,144; 1,411,425
—, —, —, resurfacing of, using, 1,378,344
—, recovery of, 1,371,546; 1,395,940; 1,420,613
—, —, absorbing agents for use in, 1,382,889; 1,382,890
—, —, aniline for, 1,355,402
—, —, apparatus for, 1,209,657; 1,228,225; 1,236,719; 1,395,940
—, —, process for, 1,381,002
—, recovery of, vapors of, process for mfr. of, 1,452,778
—, —, water for, 1,376,069
—, recovery of from air contg., apparatus for, 1,326,432
—, —, calcium bicarbonate for, 1,326,432
—, —, calcium hydroxide for, 1,326,432
—, —, coke for, 1,326,432
—, —, process for, 1,326,432
—, —, sulfuric acid for, 1,326,432
—, recovery of from baking bread, 1,314,082
—, recovery of from cellulose nitrate, 1,293,515
—, recovery of from ethyl acetoacetate mfr. 1,425,626
—, recovery of from explosives mfr. 1,393,713
—, recovery of from filament formation, sulfuric acid for, 1,377,761
—, rectification of, apparatus for, 1,136,559
—, —, *see also Alcohol, distillation of*
—, red gum solvent, 1,153,970
—, reed, musical instrument, made with 1,144,435
—, refinishing composition made with, 1,202,495
—, refractory made with, 1,130,533; 1,450,140
—, re-inforced glass mfr. with, 1,342,267; 1,342,268
—, relievo-form made with, 1,167,939
—, removing from alcoholic liquids, 1,345,437; 1,351,521; 1,351,522
—, removing from beer, 1,351,521; 1,351,522; 1,421,737
—, —, freezing process, 1,453,313
—, removal from beverages, 1,426,066
—, removing from fermented beverages, carbon dioxide for, 1,333,457
—, removing from liquors, apparatus for, 1,396,232; 1,405,085
Alcohol, removing from malt beverages, 1,337,850
—, resin, artificial, made with, 1,194,201; 1,241,738; 1,448,556; 1,451,843
—, —, extraction of using, 1,190,889
—, —, sulfonated, dissolved by, 1,373,886
—, —, synthetic, solvent, 1,413,144; 1,413,145
—, resin made with, 1,505,438; 1,513,745; 1,513,746
—, resin extraction from wood of with, 1,264,551; 1,432,937
—, resin extraction from hops with, 1,319,984
—, resinous material made with, 1,482,919
—, resin solvent, 1,207,845; 1,412,619
—, resin solvent of benzene and, 1,259,347
—, resorcinol crystallized from, 1,446,551
—, retorts made with, 1,450,140
—, retting liquors worked up into, 1,344,719
—, rhubarb extract made with, 1,167,230
—, roller, printing press, made with, 1,315,246
—, roofing made with, 1,234,816
—, rosin, extraction of using, 1,190,889
—, —, hydrogenation of, using, 1,167,264
—, —, nitrated, solvent, 1,414,164
—, rosin solvent, 1,289,007; 1,377,503; 1,419,750; 1,430,026; 1,467,356
—, rubber, artificial, made with, 1,161,904; 1,275,324
—, —, devulcanizing of with, 1,322,152
—, —, fabric coated with, made with, 1,184,015
—, —, fiber coated with, made with, 1,482,336
—, —, filler for, made with, 1,315,246
—, —, hard, coated with gold using, 1,472,244
—, —, —, coated with metal using, 1,472,244
—, —, —, coated with platinum using, 1,472,244
—, —, —, coated with silver using, 1,472,244
—, —, —, coated with tin using, 1,472,244
—, —, —, solvent, 1,472,244
—, —, —, substitute, made with, 1,315,137; 1,315,246
—, —, reclaiming of using, 1,124,920
—, —, spongy, made with, 1,156,184
—, —, synthetic made with, 1,192,310
—, rubber articles vulcanized under, 1,295,594
—, rubber coagulant, 1,423,525; 1,423,526
—, rubber gaskets, sealing of using, 1,341,952
—, rubber mending composition made with, 1,389,084
—, rubber molded using, 1,353,152
—, rubber precipitated with, 1,483,856
—, rubber solvent recovered with, 1,312,452
—, rubber solutions precipitated by, 1,377,152
—, rubber substitute made with, 1,159,257; 1,159,258; 1,185,074; 1,265,855; 1,315,246
—, rug made with, 1,249,734; 1,273,536
—, rug, slipping prevented of, using, 1,223,538
—, rust preventing composition contg., 1,428,085
—, rust preventing paint contg., 1,428,086
—, rust proofing made with, 1,145,186; 1,159,748; 1,211,138; 1,428,085; 1,428,086
—, rust remover made with, 1,496,506
—, sandarac solvent, 1,430,059; 1,430,060; 1,430,061
—, sandstone, coloring of using, 1,158,730
—, sausage casing made with, 1,204,812
—, sausage stuffing, sterilization of, using, 1,250,079
—, screens cleaned by, 1,367,111

Alcohol, secondary, acetone made with, 1,497,817
—, —, acids, organic, made with, 1,497,817
—, —, cellulose nitrate, solvent for, made with, 1,158,217
—, —, celluloid, solvent for, made with, 1,158,217
—, —, cordial made with, 1,158,217
—, distilling with sulfuric acid, 1,365,047
—, —, essential oils made with, 1,158,217
—, —, ethyl methyl ketone made with, 1,497,817
—, —, flavoring extracts made with, 1,158,217
—, —, ketones made with, 1,418,368; 1,450,569; 1,460,876; 1,497,817
—, —, liqueur made with, 1,158,217
—, —, mfr. of, Blau gas for, 1,497,817
—, —, —, gasolene, cracked, for, 1,497,817
—, —, —, hydrocarbon, olefin, for, 1,497,817
—, —, —, petroleum, cracked for, 1,497,817
—, —, —, petroleum still gas for, 1,497,817
—, —, —, petroleum vapor for, 1,497,817
—, —, —, phosphoric acid for, 1,497,817
—, —, —, Pintsch gas for, 1,497,817
—, —, —, process for, 1,497,817
—, —, —, selenic acid for, 1,497,817
—, —, —, sulfuric acid for, 1,497,817
—, —, —, water for, 1,497,817
—, —, 3-pentanone made with, 1,497,817
—, —, purification of, sulfuric acid for, 1,365,047
—, —, purifying, 1,422,583
—, seeds, sterilization of, using, 1,250,079
—, senna extract made with, 1,167,230
—, secretions, sterilization of, using, 1,250,079
—, separating from hydrocarbons, sulfuric acid for, 1,365,048
—, separation of from sulfuric acid liquors, benzene for, 1,365,046
—, serum, sterilization of, using, 1,250,079
—, shale oil, separation from of, process for, 1,365,048
—, —, —, sulfuric acid for, 1,365,048
—, shellac, recovery from of, 1,368,426
—, —, railway signal fuse contg., 1,430,590
—, shellac dissolved by, 1,386,380
—, shellac mixtures molded using, 1,353,152
—, shellac solvent, 1,124,694; 1,185,682; 1,211,461; 1,289,022; 1,328,371; 1,371,157; 1,393,290; 1,395,769; 1,412,619; 1,417,261; 1,417,262; 1,417,263; 1,422,957; 1,423,821; 1,433,111; 1,438,618; 1,456,369; 1,463,780; 1,467,356
—, shellac substitute made with, 1,315,137; 1,326,917; 1,482,929
—, shoe, box toe for, made with, 1,124,694; 1,196,276; 1,373,855
—, shoe heel made with, 1,265,855
—, shoe sole made with, 1,265,855
—, shoe sole, filler for, made with, 1,315,246
—, shoe stiffener made with, 1,316,650; 1,365,607
—, shoe stiffener made with solutions contg., 1,353,968
—, silicic acid dried with, 1,413,457
—, silk, aluminum coated, made using, 1,376,737
—, —, artificial, made with, 1,141,510; 1,181,859; 1,217,028; 1,231,172; 1,347,801; 1,440,006; 1,484,004; 1,501,206; 1,508,928
—, —, —, cellulose acetate, made with, 1,363,763
—, —, —, cellulose nitrate, made with, 1,398,525
Alcohol, silk, gold coated, made using, 1,376,737
—, —, lead coated, made using, 1,376,737
—, —, metal coated, made with, 1,376,737
—, —, zinc coated, made using, 1,376,737
—, silk worm cocoons, killing of, using, 1,250,079
—, silver acetyl-salicylate made with, 1,217,862
—, silver alcosols prepared with, 1,413,151
—, silver ore, flotation of, using, 1,224,917
—, —, treatment of, using, 1,224,917
—, silver pearl, imitation, made with, 1,434,157
—, sizing made with, 1,224,125
—, smokeless powder, manœuever, made with, 1,208,358
—, —, recovery from of, 1,334,360; 1,424,212
—, smokeless powder dried with, 1,308,344; 1,308,346
—, slops mfr. from, fungi grown in, 1,421,613
—, sludge sulfonic acid, petroleum, removal from of with, 1,286,179
—, sludge sulfonic acid tar de-emulsified with, 1,271,387
—, soap made with, 1,209,512; 1,285,004; 1,335,246; 1,408,650; 1,425,882; 1,425,883; 1,425,884
—, soap, transparent, made with, 1,475,663
—, soap dispersed in water with, 1,370,650
—, soap tincture contg., 1,432,102
—, sodium acetyl-salicylate made with, 1,217,862
—, sodium alcoholate from, 1,425,626
—, sodium *o*-benzyloxy-benzoate made with, 1,481,779
—, sodium chloride made with, 1,321,632
—, sodium cyanide made with, 1,322,195
—, *sodium dissolved in, see Sodium alcoholate*
—, sodium hydroxide solvent contg., 1,295,049
—, sodium hyposulfite made with, 1,166,160
—, sodium percarbonate made with, 1,237,128
—, sodium phosphate (NaH_2PO_4) made with, 1,150,899; 1,150,900
—, sodium sludge sulfonate made with, 1,240,523
—, soldering flux contg., rosin, ammonia and, 1,359,010
—, solid, burning of, apparatus for, 1,502,807
—, —, —, asbestos, platinum impregnated, for, 1,502,807
—, —, —, process for, 1,502,807
—, —, formula, cellulose nitrate 2-10, alcohol 95, bronze or copper powder 1, (wood alcohol), 1,329,610
—, —, iodine pencil contg., 1,405,999
—, —, mfr. of, 1,416,493
—, —, —, acetone for, 1,313,876; 1,503,835
—, —, —, alcohol for, 1,266,080; 1,299,408; 1,313,876; 1,317,950; 1,329,583; 1,329,610; 1,484,190; 1,503,835; 1,513,746
—, —, —, alcohol, denatured, for, 1,208,265; 1,299,408; 1,329,583; 1,329,610; 1,503,835
—, —, —, alcoholate for, 1,223,153
—, —, —, aluminum hydroxide for, 1,329,583
—, —, —, ammonia for, 1,484,190
—, —, —, ammonium nitrate for, 1,317,950; 1,503,835
—, —, —, ammonium stearate for, 1,484,190
—, —, —, apparatus for, 1,262,267
—, —, —, bagascello for, 1,317,950

Alcohol, solid, mfr. of, benzine for, 1,208,265; 1,277,149
—, —, —, bronze powder for, 1,329,610
—, —, —, calcium acetate for, 1,208,,265
—, —, —, calcium chloride for, 1,223,153
—, —, —, celluloid for, 1,329,583; 1,329,610
—, —, —, celluloid scrap for, 1,329,610
—, —, —, cellulose acetate for, 1,407,101; 1,503,835
—, —, —, cellulose nitrate for, 1,262,267; 1,262,268; 1,299,408; 1,313,876; 1,317,950; 1,329,583; 1,329,610; 1,412,233; 1,416,493; 1,503,835
—, —, —, copper powder for, 1,329,610
—, —, —, ether for, 1,299,408; 1,317,950
—, —, —, ethyl alcohol for, 1,208,265; 1,223,153; 1,262,267; 1,299,408; 1,277,149; 1,329,610; 1,503,835
—, —, —, fatty acid for, 1,223,153; 1,266,080
—, —, —, gasolene for, 1,208,265; 1,513,746
—, —, —, gelatin capsule for, 1,317,950
—, —, —, hydrocarbons for, 1,416,493
—, —, —, kerosene for, 1,513,746
—, —, —, lead acetate, basic, for, 1,329,583
—, —, —, metal powder for, 1,329,610
—, —, —, methyl alcohol for, 1,208,265; 1,223,153; 1,262,267; 1,262,268; 1,277,149; 1,299,408; 1,329,610; 1,503,835
—, —, —, oil shale for, 1,513,746
—, —, —, oleic acid for, 1,484,190
—, —, —, ozokerite for, 1,513,746
—, —, —, palmitic acid for, 1,484,190
—, —, —, paraffin for, 1,513,746
—, —, —, potassium for, 1,223,153
—, —, —, potassium hydroxide for, 1,223,153
—, —, —, potassium methylate for, 1,223,153
—, —, —, potassium stearate for, 1,223,153
—, —, —, process for, 1,208,265; 1,223,153; 1,262,267; 1,262,268; 1,266,080; 1,277,149; 1,299,408; 1,317,950; 1,329,583; 1,329,610; 1,484,190; 1,503,835; 1,513,746
—, —, —, "Sericose" for, 1,503,835
—, —, —, soap for, 1,194,613; 1,266,080; 1,277,149; 1,407,101; 1,484,190
—, —, —, shellac for, 1,208,265
—, —, —, sodium for, 1,223,153
—, —, —, sodium ethylate for, 1,223,153
—, —, —, sodium hydroxide for, 1,223,153; 1,266,080; 1,277,149; 1,484,190
—, —, —, sodium stearate for, 1,223,153; 1,266,080; 1,277,149; 1,484,190
—, —, —, stearic acid for, 1,208,265; 1,223,153; 1,266,080; 1,277,149; 1,484,190
—, —, —, resin for, 1,513,746
—, —, —, wax, mineral, for, 1,513,746
—, —, petroleum gas burner lighter, 1,194,613
—, —, sealing wax candle ingredient, 1,462,601
—, —, *see also Acetone, solidified; Alcohol-ether mixture, solidified; Amyl alcohol, solidified; Benzene, solidified; Carbon bisulfide, solidified; Carbon tetrachloride, solidified; Chloroform, solidified; Ether, solidified; Ethyl alcohol, solidified; Fuel, solidified; Gasolene, solidified; Hydrocarbon, solidified; Incendiary product; Kerosene, solidified; Methyl alcohol, solidified; Toluene, solidified*
Alcohol, solid fuel contg., mfr. of, 1,299,408
—, solubility of 2-phenylquinolyl-4-methyl ketone in, 1,434,306
—, solubility of 2-phenylquinolyl-4-methyl *iso*-nitrosoketone in, 1,434,306
—, solutions, thickening of, using, 1,234,714
—, solvent contg., 1,283,183
—, —, recovery of, 1,294,066
—, —, solvent for gums, 1,353,599
—, solvent for isocyanine dyes, 1,374,871; 1,374,872
—, solvent for quinine compound, 1,213,464; Re-15,127
—, solvent in dye mfr., 1,359,969
—, solvent in smokeless powder mfr., 1,336,463
—, solvent recovery with, 1,365,791; 1,395,940
—, solvent recovery apparatus for, 1,218,616
—, sonorous body made with, 1,144,435
—, sound record made with, 1,213,613; 1,213,614; 1,213,615; 1,213,616
—, sparklers made with, 1,204,709
—, spruce resin distillate in, 1,469,148
—, stain, wood, made with, 1,316,674
—, starch, colloidal, made with, 1,392,849
—, starch ethers made with, 1,350,820
—, starch ethers solvent, 1,350,820
—, stearic acid made with, 1,209,512
—, stearic acid solvent, 1,342,590
—, stearic-choleic acid made with, 1,252,212
—, stearyl-benzenesulfonamide made with, 1,143,499
—, steel, cleaner for, contg., 1,268,237
—, —, etching of with, 1,276,599
—, —, rust-proofing, with, 1,315,017
—, steering wheel rim made with, 1,520,191
—, stencil made with, 1,169,520; 1,304,120
—, stereopticon slide made with, 1,181,754
—, sterilization using, 1,250,079
—, stone, antique finish applied to, using, 1,470,182
—, —, artificial, made with, 1,518,254
—, —, coloring of using, 1,158,730
—, —, worn finish applied to, using, 1,470,182
—, stove polish contg., 1,430,026
—, strontium acetyl-salicylate made with, 1,217,862
—, strontium chloride solvent, 1,145,186
—, strychnine dissolved in, 1,300,747
—, succinic acid made with, 1,147,767; 1,147,768; 1,147,769; 1,147,770; 1,177,746; 1,491,465
—, sugar made with, 1,201,936
—, sugar, refining of using, 1,476,242
—, sugar cane wax made with, 1,153,934
—, sulfating of, air for, 1,159,032; 1,159,033
—, —, apparatus for, 1,159,032; 1,159,033
—, —, manganese dioxide for, 1,159,032; 1,159,033
—, —, nitrogen oxides for, 1,159,032; 1,159,033
—, —, oxygen for, 1,159,032; 1,159,033
—, —, process for, 1,159,032; 1,159,033
—, —, sodium chloride for, 1,159,032; 1,159,033
—, —, sulfur dioxide for, 1,159,032; 1,159,033
—, —, sulfurous acid for, 1,159,032; 1,159,033
—, sulfite waste liquors as source of, 1,396,028
—, sulfonated compound made with, 1,425,882; 1,425,883; 1,425,884

Alcohol, sulfonic acids purified with, 1,428,197
—, sulfonic products removed from petroleum oils by, 1,388,832
—, sulfur dioxide absorbed by, 1,212,199; 1,315,189
—, sulfur dioxide, liquid, made with, 1,260,681
—, sulfur dioxide solvent, 1,260,681
—, sulfuric acid, recovery with of, 1,326,432
—, —, separation from of, carbon bisulfide for, 1,365,046
—, —, —, chloroform for, 1,365,046
—, —, —, ether for, 1,365,046
—, —, —, toluene for, 1,365,046
—, sulfuric acid derivatives of, lead ore, flotation of using, 1,170,637
—, —, ore, flotation of using, 1,170,637
—, —, zinc ore, flotation of using, 1,170,637
—, sulfur-phenol resin solvent, 1,435,801
—, sulfur solvent, 1,322,152
—, sulfur trioxide, absorption of, using, 1,212,199
—, sulfuryl chloride made with, 1,364,738
—, suppository made with, 1,499,348
—, surgical ligature made with, 1,239,690
—, surgical suture, sterilization of using, 1,202,931
—, syphilis treating of with apparatus using, 1,228,451
—, syphilis, compound for treatment of, made with, 1,515,495
—, tanning compound contg., 1,210,968
—, tar, fireproofing of, using, 1,388,829
—, teeth, artificial, mending composition for, made with, 1,389,084
—, terpin hydrate made with, 1,411,859
—, tertiary, finish remover made with, 1,145,365
—, —, silk, artificial, viscose, precipitation of using, 1,200,774; 1,399,587
—, —, viscose, precipitation of using, 1,200,774
—, tetrahydric, silk, artificial, cuprammonium, made with, 1,421,707
—, tetrahydrocolchicine made with, 1,154,314
—, tetramethylene-bis-glycine made with, 1,150,579
—, tetramethylene-bis-glycinonitrile made with, 1,150,579
—, 3.5.3′.5′-tetramino-2.4.2′.4′-tetra(methylamino)-arsenobenzene made with, 1,265,865
—, textile, treatment of, using, 1,417,587
—, —, waterproofing of using, 1,133,062
—, —, wear-proofing of, using, 1,417,587
—, therapeutic compound made with, 1,193,474; 1,218,655; 1,250,345; 1,479,695
—, therapeutic product made with, 1,213,261; 1,497,995
—, thermoplastic made with, 1,233,374
—, thermoplastic composition contg., 1,456,369
—, 2-(2′-thienyl)-cinchoninic acid made with, 1,350,408
—, 2-thienylquinoline-4-carboxylic acid dissolved by, 1,350,408
—, thiocarbanilid desulfurized with, 1,411,231
—, thiodiglycolic acid, silver-sodium derivative of, made with, 1,517,002
—, thioureas made with, 1,218,655
—, thio-protein compounds made with, 1,145,634
—, thorium, electrodeposition of using, 1,487,174
Alcohol, thorium alloy, electrodeposition of using, 1,487,174
—, —, iron in, electrodeposition of, using, 1,487,174
—, thread, artificial, made with, 1,241,738
—, thryoxin dissolved by hydrochloric acid, contg., 1,392,768
—, thyroid product mfr. with, 1,392,767; 1,392,768
—, tile, floor, made with, 1,315,246
—, tin(ous) chloride solvent, 1,353,152
—, tire puncture-healing composition made with, 1,128,282; 1,203,720; 1,363,438
—, tobacco blended with, 1,325,060
—, tobacco receptacle made with, 1,283,422
—, toluene, solidified, made with, 1,484,190
—, *o*-toluidine, oleic acid, compound of and, made with, 1,475,477
—, *p*-*p*′-tolyldibromindigo, reaction with, 1,412,038
—, tonka bean extract made with, 1,515,714
—, tooth-cleaning preparation contg., 1,445,351; Re-15,691; 1,445,352
—, tooth filling contg., 1,349,592
—, tooth paste contg., 1,467,024
—, tortoise shell, imitation, made with, 1,242,783; 1,263,284
—, toys made with, 1,185,074
—, tragacanth, colloidal, made with, 1,392,849
—, transfer-sheet made with, 1,280,399
—, triacidic, fiber, vegetable, degumming of, using, 1,156,462
—, —, —, —, softening of, using, 1,156,462
—, —, flax, degumming of, using, 1,156,462
—, —, —, softening of, using, 1,156,462
—, —, hemp, degumming of, using, 1,156,462
—, —, —, softening of, using, 1,156,462
—, —, jute, degumming of, using, 1,156,462
—, —, —, softening of, using, 1,156,462
—, —, ramie, degumming of, using, 1,156,462
—, —, —, softening of, using, 1,156,462
—, tribromo(tertiary) butyl benzoate purified by, 1,397,913
—, 2-tribromethyl-*iso*-propyl benzoate made with, 1,443,552
—, trichlor-ethylene made with, 1,343,716
—, 2-trichlormethyl-*iso*-propyl benzoate made with, 1,443,552
—, 2-trichlormethyl-*iso*-propyl *m*-nitro-benzoate made with, 1,451,357
—, trihydric, mfr. of, process for, 1,477,113
—, *o*-trimethylacetoxy-benzoic acid solvent, 1,338,297
—, trimethylene glycol disalicylate made with, 1,286,944
—, trimethylene glycol disalicylate solvent, 1,286,944
—, trimethylacetylcresotinic acid solvent, 1,338,297
—, trimethylacetylsalicylic acid solvent, 1,338,297
—, trinitro-toluene made with, 1,241,017
—, trinitrotoluene purified with, 1,297,524; 1,309,559
—, trinitroxylene purified with, 1,309,559
—, *a.b.g*-tri-*o*-tolyl-guanidine made with, 1,437,419

Alcohol, tritolylguanidine mfr. with, 1,437,419
—, tropinone derivatives mfr. with, 1,420,900
—, tropinone esters prepared with, 1,419,091
—, tropinone esters soluble in, 1,419,091
—, trihydric, formaldehyde preserved using, 1,481,849
—, —, paraformaldehyde solvent contg., 1,481,849
—, tuberculosis, substance for treatment of, made with, 1,250,345
—, tulle, water-proofing of using, 1,133,062
—, tungsten filament made with, 1,132,523; 1,208,629
—, tungsten hexachloride solvent, 1,208,629
—, Turkish bird-lime thinned with, 1,356,267
—, Turkish bird-lime treated with, 1,396,023
—, turpentine made using, 1,505,438
—, turpentine, extraction from wood of with, 1,264,551
—, —, solidified, made with, 1,484,190
—, turpentine oil in, 1,469,148
—, turpentine replaced in treated wood by, 1,374,806
—, turpentine substitute made with, 1,256,537
—, tyramine made with, 1,178,720
—, ultramarine, colloidal, made with, 1,458,542
—, ultramarine dispersing agent, 1,458,542
—, ureas made with, 1,218,655; 1,241,919; 1,241,920
—, urea, oleic acid, compound of and, made with, 1,475,477
—, vaccine made using, 1,514,681
—, vaccines, sterilization of, using, 1,250,079
—, vanilla bean extract made with, 1,515,714
—, vanillalacetone made with, 1,263,796
—, vapors of, recovery, process for, 1,452,778
—, varnish made with, 1,159,257; 1,159,258; 1,167,264; 1,181,859; 1,187,231; 1,195,673; 1,209,333; 1,234,381; 1,242,161; 1,242,783; 1,251,863; 1,275,324; 1,326,917; 1,347,801; 1,354,154; 1,357,614; 1,392,849; 1,408,325; 1,413,144; 1,413,145; 1,436,820; 1,440,006; 1,443,935; 1,451,843; 1,470,637; 1,482,919; 1,482,929
—, varnish, light transforming, made with, 1,188,655; 1,188,775; 1,188,776; 1,188,777
—, —, substitute made with, 1,315,137
—, —, undercoating composition for, made with, 1,425,510
—, —, (waterproof), made using, 1,190,765
—, varnish made from old reclaimed paint materials by means of, 1,398,438
—, varnish remover made with, 1,129,770; 1,130,499; 1,133,639; 1,165,148; 1,181,361; 1,189,803; 1,273,307; 1,274,430; 1,281,156; 1,328,080; 1,381,485; 1,474,984; 1,483,587
—, vegetable, desiccating of, with, 1,259,410
—, —, preserving of, with, 1,259,410
—, —, sterilization of, using, 1,250,079
—, vegetable matter, sterilization of, using, 1,250,079
—, vegetable parchment made with, 1,236,959
—, veronal, quinine, compound of and, made with, 1,185,637
—, vinasse, betaine, extraction of from, using, 1,219,226
Alcohol, vinegar made with, 1,164,063
—, violin, coating of, using, 1,234,989
—, viscose made with, 1,251,237; 1,355,985
—, viscose, precipitation of using, 1,143,569; 1,375,823; 1,375,824
—, viscose filaments treated with, 1,467,265
—, viscose treated with, 1,140,174
—, vitamin made with, 1,235,198
—, vitamin obtained using, 1,162,907
—, vulcanite substitute, made with, 1,315,246
—, wall covering contg., 1,313,658; 1,482,336; 1,483,856
—, wall paper, coating composition for, made with, 1,425,510
—, water gas made with, 1,506,323
—, waterproofing made with, 1,133,062; 1,135,356; 1,241,738; 1,234,381; 1,315,246; 1,326,917; 1,388,829; 1,389,084
—, water-proof coating made with, 1,124,012
—, waterproofing composition contg., 1,315,109; 1,315,110; 1,382,077
—, waterproofing process using, 1,388,825
—, waterproofing reagent contg., 1,432,833
—, waterproof material made with, 1,236,460; 1,236,959
—, wax, mineral, made using, 1,513,745; 1,513,746
—, wax solvent, 1,277,904
—, wax distillate, paraffin, removal of from, using, 1,509,325
—, wax removing composition made with, 1,380,299
—, whale oil, hydrogenation of, catalyst for, made with, 1,159,480
—, wire screens cleaned by, 1,367,111
—, wood, aluminum coated, made using, 1,376,737
—, —, antique finish applied to, using, 1,470,182
—, —, cleaning and polishing composition contg., 1,363,481
—, —, coating of, using, 1,124,012; 1,165,222; 1,185,074; 1,234,989
—, wood, finishing compound for contg., 1,169,930
—, —, gold coated, made using, 1,376,737
—, —, imitation, made with, 1,153,970
—, —, impregnation of, using, 1,158,965
—, —, lead coated, made using, 1,376,737
—, —, metal coated, made using, 1,376,737
—, —, preservative for, contg., 1,456,509
—, —, preserving of, using, 1,374,806
—, —, seasoning of, using, 1,210,491
—, —, treatment of, using, 1,374,806
—, —, worn finish applied to, using, 1,470,182
—, —, zinc coated, made using, 1,376,737
—, —, *see also Methyl alcohol*
—, wood filler contg., 1,401,907
—, wood for producing, 1,374,928
—, wood work mending composition made with, 1,389,084
—, worms, preserving of using, 1,163,645
—, wool, degreasing of, using, 1,234,732
—, xylidine, oleic acid, compound of and, made with, 1,475,477
—, yarn, metallic, made using, 1,249,252
—, yeast, autolyzed, liquid, made with, 1,489,684
—, —, colloidal, made with, 1,392,849; 1,395,729
—, yoghurt, thickening of, using, 1,234,714

Alcohol, zein made with, 1,320,508
—, zein solvent, 1,365,607
—, zinc, coating of, using, 1,221,046
—, —, cork coated with, made using, 1,376,737
—, —, etching of with, 1,276,599
—, —, fabric coated with, made using, 1,376,737
—, —, iron coated with, coating of, using, 1,221,046
—, —, —, painting of, using, 1,221,046
—, —, painting of, using, 1,221,046
—, —, paper, tissue, coated with, made using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, silk coated with, made using, 1,376,737
—, —, wood coated with, made using, 1,376,737
—, zinc dust and, naphthalene-2.6-disulfochloride reduced with, 1,444,277
—, zinc acetyl-salicylate made with, 1,217,862
—, 99% mfr. of, 1,459,699
—, *see also Alcohol, denatured; Ethyl alcohol*
Alcohol-acetone, cellulose acetate solvent, 1,467,493
Alcoholate, acetone, solidified, made using, 1,223,153
—, Amyl alcohol, solidified, made using, 1,223,153
—, alcohol, solidified, made using, 1,223,153
—, alcohol-ether mixture, solidified, made using, 1,223,153
—, ether, solidified, made using, 1,223,153
—, ethyl alcohol, solidified, made using, 1,223,153
—, kerosene, solidified, made using, 1,223,153
—, methyl alcohol, solidified, made using, 1,223,153
—, suppository made with, 1,499,348
—, toluene, solidified, made using, 1,223,153
Alcohol-benzene, airplane dope contg., 1,363,763
Alcohol-chloroform, cellulose acetate solvent, 1,410,790
Alcohol-choleic acid, mfr. of, process for, 1,252,212
Alcohol-ether, antimony trichloride solvent, 1,388,825
Alcohol-ether mixture, solidified, mfr. of alcoholate for, 1,223,153
—, —, —, calcium chloride for, 1,223,153
—, —, —, ethyl alcohol for, 1,223,153
—, —, —, fatty acid for, 1,223,153
—, —, —, methyl alcohol for, 1,223,153
—, —, —, potassium for, 1,223,153
—, —, —, potassium hydroxide for, 1,223,153
—, —, —, potassium methylate for, 1,223,153
—, —, —, potassium stearate for, 1,223,153
—, —, —, process for, 1,223,153
—, —, —, sodium for, 1,223,153
—, —, —, sodium ethylate for, 1,223,153
—, —, —, sodium hydroxide for, 1,223,153
—, —, —, sodium stearate for, 1,223,153
—, —, —, stearic acid for, 1,223,153
—, —, *see also Alcohol, solid*
Alcoholic liquid, non-potable, mfr. of, "alcatroloid" for, 1,453,374
—, —, —, alcohol for, 1,453,374
—, —, —, beetroot for, 1,453,374
—, —, —, cashew for, 1,453,374
—, —, —, ether for, 1,453,374
Alcoholic liquid, non-potable, mfr. of, ethyl ether for, 1,453,374
—, —, —, *farofa raspadura* for, 1,453,374
—, —, —, hydrochloric acid for, 1,453,374
—, —, —, manioc for, 1,453,374
—, —, —, molasses for, 1,453,374
—, —, —, naphtha for, 1,453,374
—, —, —, naphthalene for, 1,453,374
—, —, —, oil, animal, for, 1,453,374
—, —, —, —, mineral, for, 1,453,374
—, —, —, —, vegetable, for, 1,453,374
—, —, —, oranges for, 1,453,374
—, —, —, potassium tartrate for, 1,453,374
—, —, —, "saccharoleum" for, 1,453,374
—, —, —, sugar for, 1,453,374
—, —, —, sugar cane for, 1,453,374
—, —, —, sulfuric acid for, 1,453,374
—, —, —, tannic acid for, 1,453,374
—, —, —, tar, petroleum, for, 1,453,374
—, —, —, —, Stockholm, for, 1,453,374
—, —, —, —, vegetable, for, 1,453,374
—, —, —, turpentine for, 1,453,374
—, —, —, "turpentine, etherolic" for, 1,453,374
—, —, —, water melons for, 1,453,374
—, —, —, yeast for, 1,453,374
Alcohol-water, alkali carbonate insoluble in, 1,295,049
—, sodium cyanide dissolved in, 1,295,049
Alcohol yellow, gold leaf, imitation, made with, 1,160,979
—, metal leaf made with, 1,160,979
Alcoholysis, process of, 1,433,308
Alcohol formique, see Methyl alcohol
Alcool methylique, see Methyl alcohol
Aldehyde, acetic, see Acetaldehyde
—, acetic anhydride made with, 1,326,040
—, acetyl chloride made with, 1,326,040
—, acid chloride, organic, made with, 1,326,040
—, alcohols made with, 1,247,629; 1,410,223
—, aldehyde-ammonia from ammonia and, 1,450,983
—, aldehyde-ammonia mfr. from, 1,456,702
—, amber substitute made with, 1,502,945
—, amines, compounds of and, 1,417,970
—, *p*-amino-phenol made with, 1,431,470
—, anhydrides, organic, made with, 1,326,040
—, anthracene sulfonic acid condensed with, 1,448,278
—, aromatic, dyestuff made with, 1,244,149
—, —, mfr. of, 1,405,261
—, azo-resins made with, 1,500,844
—, banana plant, treatment of with, 1,271,591
—, benzaldehyde made with, 1,431,470
—, benzoyl chloride made with, 1,326,040
—, billiard ball made with, 1,482,358
—, blood, colloidal, made with, 1,395,729
—, 1-brom-*N*-methyl-2-naphthylamine made with, 1,431,470
—, buttons made with, 1,395,729
—, butyric anhydride made with, 1,326,040
—, cane, degumming of, using, 1,148,698
—, —, retting of, using, 1,148,698
—, —, treatment of with, 1,271,591
—, carbon dioxide, removal from of, 1,493,183; 1,510,373

Aldehyde, carbon tetrachloride, freezing point of mixture of and, 1,243,149; 1,270,393; 1,270,394; 1,270,395; 1,270,396; 1,270,397
—, carbon tetrachloride freezing point affected by, 1,292,743; 1,292,744
—, carboxylic, copper, precipitation of with, 1,472,115
—, casein, colloidal made with, 1,395,729
—, catalyst prepared with, 1,390,683
—, celluloid substitute made with, 1,245,975; 1,280,862; 1,319,666
—, cellulose nitrate plastic made with, 1,502,945
—, cellulose soda waste gases constituent, 1,345,220
—, cellulose sulfate waste gases constituent, 1,345,220
—, cement made with, 1,502,945
—, chloroform made with, 1,203,032
—, cigarette holders made with, 1,482,358
—, colloid made with, 1,502,945
—, composition contg. gliadin and, 1,316,854
—, composition contg. prolamine and, 1,316,854
—, composition contg. zein and, 1,316,854
—, copper, precipitation of with, 1,472,115
—, desoxycholic acid, addition production of and, 1,252,212
—, *N.N*-dimethyl-*p*-toluidine made with, 1,431,470
—, door knobs made with, 1,482,358
—, dyeing process using, 1,333,700
—, dyestuff made with, 1,497,231; 1,500,844
—, ebonite substitute contg., 1,319,666
—, —, —, castor oil for, 1,229,681
—, emulsion of, mfr. of, castor oil, alkali compounds of, for, 1,229,681
—, —, —, cresols for, 1,229,681
—, —, —, naphthols for, 1,229,681
—, —, —, phenols for, 1,229,681
—, —, —, process for, 1,229,681
—, —, —, soap, castor oil, for, 1,229,681
—, —, —, sodium hydroxide for, 1,229,681
—, esparto, degumming of, using, 1,148,698
—, —, retting of, using, 1,148,698
—, —, treatment of with, 1,271,591
—, ethyl alcohol, removal from of, 1,498,274
—, ethyl alcohol denatured with, glycol made with, 1,206,222
—, ethyl alcohol impurity, 1,498,274
—, ethyl ether, impurity in of, 1,507,337
—, —, removal from of, 1,312,475
—, ethyl ether contg., impurity of, 1,189,602
—, fats contg., 1,381,564
—, fibrous plant, degumming of, using, 1,148,698
—, —, retting of, using, 1,148,698
—, film made with, 1,502,945
—, finish remover made with, 1,160,394; 1,172,773
—, fire-extinguisher contg., carbon tetrachloride and, 1,243,149; 1,270,393; 1,270,394; 1,270,395; 1,270,396; 1,270,397
—, fish protein, colloidal, made with, 1,395,729
—, flax, degumming of, using, 1,148,698
—, —, retting of, using, 1,148,698
—, —, treatment of with, 1,271,591
—, formaldehyde-urea condensate made with, 1,482,358
Aldehyde, formation in mercury fulminate mfr., 1,459,410
—, fuel, liquid, made with, 1,493,874
—, galalith substitute contg., 1,319,666
—, gold extracted from sea-water by, 1,375,441
—, "greenlime" constituent, 1,345,220
—, "greenlime" product contg., 1,345,220
—, gum, artificial, made with, 1,225,748; 1,225,749; 1,225,750
—, handles made with, 1,482,358
—, hemoglobin, colloidal, made with, 1,395,729
—, hemp, degumming of, using, 1,148,698
—, —, retting of, using, 1,148,698
—, —, treatment of with, 1,271,591
—, hog cholera anti-toxin made with, 1,224,860
—, horn substitute contg., 1,319,666
—, hydroiodic acid mfr. with iodine and, 1,380,951
—, insulation, electric, made with, 1,245,975; 1,500,844
—, iron, rust removal from using, 1,470,225
—, ivory, imitation, made with, 1,482,358
—, ivory substitute made with, 1,245,975
—, jelly-like material made with, 1,502,945
—, ketone aldehyde condensate made with, 1,502,945
—, knobs made with, 1,395,729
—, lacquer made with, 1,502,945
—, leather, treatment of with apparatus for, 1,225,212
—, linseed oil substitute made with, 1,500,844
—, liquids cooled with, 1,435,142
—, mfr. of, air for, 1,392,886; Re-15,789; 1,517,968
—, —, alkali hydroxide for, 1,201,850
—, —, apparatus for, 1,148,104; 1,250,282; 1,392,886; Re-15,789; 1,454,609; 1,472,119; 1,500,080
—, —, asbestos for, 1,201,850
—, —, asphalt for, 1,517,968
—, —, banana plant for, 1,271,591
—, —, bark for, 1,202,317
—, —, berry for, 1,472,119
—, —, brass as catalyst for, 1,517,968
—, —, calcium hydroxide for, 1,196,290; 1,202,317
—, —, calcium oxide for, 1,202,317
—, —, cane for, 1,271,591
—, —, carbon, activated, as catalyst for, 1,500,080
—, —, carbon dioxide for, 1,201,850
—, —, carbon dioxide as catalyst for, 1,392,886; Re-15,789
—, —, carbon monoxide for, 1,201,850
—, —, catalysts for, 1,426,449
—, —, —, mfr. of, ammonium hydroxide for, 1,400,247
—, —, —, —, charcoal for, 1,400,247
—, —, —, —, chromium for, 1,400,247
—, —, —, —, copper for, 1,400,247
—, —, —, —, copper hydroxide for, 1,400,247
—, —, —, —, copper(ic) nitrate for, 1,400,247
—, —, —, —, ethyl alcohol for, 1,400,247
—, —, —, —, iron for, 1,400,247
—, —, —, —, methyl alcohol for, 1,400,247
—, —, —, —, nickel nitrate for, 1,400,247
—, —, —, —, porcelain for, 1,400,247
—, —, —, —, process for, 1,400,247
—, —, —, —, pumice for, 1,400,247

Aldehyde, mfr. of, catalysts for, mfr. of, terra cotta for, 1,400,247
—, —, cellulose soda liquor for, 1,196,290
—, —, cellulose sulfate liquor for, 1,196,290
—, —, cellulose sulfite liquor for, 1,202,317
—, —, cerium for, 1,201,850
—, —, cerium compound for, 1,201,850
—, —, cerium oxide for, 1,201,850
—, —, charcoal, cocoanut, as catalyst for, 1,500,080
—, —, chromium for, 1,201,850
—, —, chromium compound for, 1,201,850
—, —, chromium oxide for, 1,201,850
—, —, chromium oxide as catalyst for, 1,517,968
—, —, cobalt for, 1,201,850
—, —, cobalt compound for, 1,201,850
—, —, cobalt oxide for, 1,201,850
—, —, copper, iron coated with, for, 1,201,850
—, —, copper as catalyst for, 1,500,080; 1,517,968
—, —, copper oxide as catalyst for, 1,517,968
—, —, diatomaceous earth for, 1,201,850
—, —, esparto for, 1,271,591
—, —, fat for, 1,517,968
—, —, flax for, 1,271,591
—, —, gilsonite for, 1,517,968
—, —, grain for, 1,472,119
—, —, grease for, 1,517,968
—, —, hemp for, 1,271,591
—, —, hydrocarbons for, 1,392,886; 1,500,080
—, —, hydrocarbon, olefin, for, 1,517,968
—, —, hydrocarbon contg., methyl group for, 1,302,273
—, —, hydrogen for, 1,201,850
—, —, iron, copper, coated, for, 1,201,850
—, —, iron as catalyst for, 1,517,968
—, —, iron hydroxide for, 1,196,290
—, —, iron vanadate as catalyst for, 1,517,968
—, —, kerosene for, 1,517,968
—, —, magnesia for, 1,201,850
—, —, magnesium hydroxide for, 1,196,290
—, —, manganese for, 1,201,850
—, —, manganese compound for, 1,201,850
—, —, manganese oxide for, 1,201,850
—, —, molybdenum for, 1,201,850
—, —, molybdenum compound for, 1,201,850
—, —, molybdenum compound as catalyst for, 1,517,968
—, —, molybdenum oxide for, 1,201,850
—, —, nitric acid as catalyst for, 1,392,886; Re-15,789
—, —, nitrogen oxides as catalyst for, 1,392,886; Re-15,789
—, —, nut for, 1,472,119
—, —, oil gas for, 1,517,968
—, —, osmium for, 1,201,850
—, —, osmium compound for, 1,201,850
—, —, osmium oxide for, 1,201,850
—, —, oxygen for, 1,392,886; Re-15,789; 1,500,080; 1,517,968
—, —, oxygen compounds, gaseous, as catalyst for, 1,392,886; Re-15,789
—, —, palladium for, 1,201,850
—, —, palladium compound for, 1,201,850
—, —, palladium oxide for, 1,201,850
—, —, petroleum for, 1,517,968
—, —, pine wood for, 1,472,119
—, —, plant for, 1,472,119
Aldehyde, mfr. of, potassium carbonate for, 1,201,850
—, —, process for, 1,148,104; 1,196,290; 1,201,850; 1,202,317; 1,250,282; 1,271,591; 1,388,841; 1,392,886; Re-15,789; 1,400,205; 1,426,449; 1,429,650; 1,437,483; 1,472,119; 1,500,080; 1,517,968
—, —, pumice for, 1,201,850
—, —, sawdust for, 1,202,317
—, —, seed for, 1,472,119
—, —, shrub for, 1,472,119
—, —, silver chromate as catalyst for, 1,517,968
—, —, sodium hydroxide for, 1,196,290; 1,201,850; 1,517,968
—, —, steam for, 1,517,968
—, —, sulfur oxide as catalyst for, 1,392,886; Re-15,789
—, —, titanium for, 1,201,850
—, —, titanium compound for, 1,201,850
—, —, titanium oxide for, 1,201,850
—, —, vanadium oxide as catalyst for, 1,517,968
—, —, wood for, 1,148,104; 1,202,317; 1,250,282; 1,271,591; 1,472,119
—, —, zinc for, 1,201,850
—, —, zinc compound for, 1,201,850
—, —, zinc hydroxide for, 1,196,290
—, —, zinc oxide for, 1,201,850
—, marble substitute made with, 1,245,975
—, match made with, 1,363,095
—, match head made with, 1,363,095
—, *N*-methyl-*p*-toluidine made with, 1,431,470
—, *p*-methylamino-phenol made with, 1,431,470
—, molded article made with, 1,395,729; 1,482,358; 1,502,945
—, naphthol sulfonic acid condensed with, 1,448,278
—, ornaments made with, 1,482,358
—, oxamide made with, 1,194,354
—, oxidizing, catalysts for, 1,345,323
—, oxidation of, air for, 1,345,323
—, —, catalyst for, mfr. of, process for, 1,345,323
—, —, hopcalite as catalyst for, 1,345,323
—, —, oxygen for, 1,345,323
—, —, process for, 1,345,323
—, paint remover made with, 1,147,848; 1,189,803
—, parchment skin treated with, 1,235,723; 1,235,724
—, phenol aldehyde condensate made with, 1,146,384; 1,146,385; 1,215,072; 1,225,750; 1,363,095; 1,369,352; 1,500,844
—, phenol aldehyde condensate substitute made with, 1,245,975
—, phenyl-acetic anhydride made with, 1,326,040
—, phosphonic acids of, formation of, 1,425,931; Re-15,557
—, pipe stems made with, 1,482,358
—, plastic made with, 1,319,666; 1,468,331; 1,502,945
—, printers roller made with, 1,223,745
—, proteid products made with, 1,245,975
—, protein, colloidal, made with, 1,395,729
—, pyrotechnic made with, 1,500,844
—, record, phonograph, made with, 1,146,384; 1,146,385; 1,482,358
—, reducing, hydrogen and catalysts for, 1,410,223

Aldehyde, resin, artificial, made with, 1,500,844; 1,502,945
—, "rubber-like acetone compound," made with, 1,502,945
—, rubber substitute made with, 1,245,975
—, shellac substitute made with, 1,500,844
—, sodium bisulfite for removing from oil, 1,381,564
—, steel, rust removal from using, 1,470,225
—, tanning compound made with, 1,254,364; 1,399,510; 1,500,844
—, tanning materials from phenols and, 1,399,510
—, tar contg., 1,250,282
—, tobacco, treatment of with, apparatus for, 1,225,212
—, toilet articles made with, 1,482,358
—, *p*-toluidine made with, 1,431,470
—, varnish made with, 1,502,945
—, varnish, fat soluble, made with, 1,500,844
—, —, oil soluble, made with, 1,500,844
—, varnish remover made with, 1,147,848; 1,189,803
—, vinyl diacetone amine made with, 1,473,285
—, vulcanization accelerator made with, 1,417,970; 1,473,285
—, wood, seasoning of, using, 1,210,491
—, —, treatment of with, 1,271,591
—, yeast, colloidal, made with, 1,395,729
—, *see also Acetaldehyde; Formaldehyde*
Aldehyde-alcohol, silk, cuprammonium, precipitating bath for contg., 1,130,830
Aldehyde-amines, rubber, age-resisting compound for, made with, 1,515,642
—, vulcanization process using, 1,515,642
Aldehyde-ammonia, caoutchouc, *b.g*-dimethyl-erythrene, vulcanization of using, 1,149,580
—, —, erythrene, vulcanization of using, 1,149,580
—, —, isoprene, vulcanization of using, 1,149,580
—, latex preservative, 1,443,149
—, mfr. of, 1,456,702
—, —, acetaldehyde for, 1,456,702
—, —, aldehydes for, 1,456,702
—, —, ammonia for, 1,456,702
—, —, ammonium hydroxide for, 1,456,702
—, —, amyl acetate for, 1,456,702
—, —, amyl aldehyde for, 1,456,702
—, —, amyl formate for, 1,456,702
—, —, butylaldehyde for, 1,456,702
—, —, ethyl acetate for, 1,456,702
—, —, ethyl formate for, 1,456,702
—, —, methyl acetate for, 1,456,702
—, —, methyl formate for, 1,456,702
—, —, process for, 1,450,983
—, —, propylaldehyde for, 1,456,702
—, —, vinyl acetate for, 1,456,702
—, —, vinyl formate for, 1,456,702
—, molded article made with, 1,514,508
—, rubber, hard, made using, 1,507,594
—, —, para, vulcanization of using, 1,149,580
—, —, plantation, vulcanization of using, 1,149,580
—, —, vulcanized, colloidal, made with, 1,443,149
—, vulcanization process using, 1,467,197; 1,507,594
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Aldehyde-bisulfite, silk, artificial, viscose, made with, 1,374,718
—, viscose precipitated with, 1,292,544
—, viscose spinning baths contg., 1,422,412
Aldehyde-bisulfite solution, animal fibers treated with, 1,466,748
Aldehyde-choleic acid, mfr. of, process for, 1,252,212
Aldehyde chloride, see as-Dichlor-ethane
—, *see also 1.1-Dichlor-ethane*
Aldehyde condensation products, mfr. of, urea and formaldehyde for, 1,355,834
"Aldehyde fatty acids," flotation with, 1,439,107
—, flotation process using, 1,439,107
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Aldehyde resin, amber substitute made with, 1,489,213
—, copal substitute made with, 1,489,213
—, dressing made with, 1,489,213
—, formation of, avoiding, 1,384,842; Re-15,434
—, hat stiffener made with, 1,489,213
—, resin, artificial, made with, 1,489,213
—, shellac substitute made with, 1,489,213
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Aldol, airplane dope contg., 1,303,563
—, cellulose acetate, composition of and, 1,303,563
—, cellulose acetate solvent contg., 1,310,841
—, cellulose nitrate, composition of and, 1,234,921
—, condensation of with alkalies, 1,378,562
—, fabric, coated, made with, 1,234,921
—, fireproofing composition contg., 1,310,841
—, lead sulfide, flotation of using, 1,478,697
—, lead sulfide, zinc sulfide, separation from of, using, 1,478,697
—, mfr. of, acetaldehyde for, 1,151,113; 1,220,746; 1,234,156; 1,261,811; 1,437,139; 1,450,984
—, —, acetic acid for, 1,437,139
—, —, alcohols for, 1,151,113; 1,261,811
—, —, alkali alcoholate as catalyst for, 1,220,746
—, —, alkali alloy as catalyst for, 1,220,746
—, —, alkali amalgam as catalyst for, 1,220,746
—, —, alkali carbonate for, 1,220,746
—, —, alkali cyanide as catalyst for, 1,220,746
—, —, alkali earth for, 1,261,811
—, —, alkali earth alloy for, 1,261,811
—, —, alkali earth alloy as catalyst for, 1,220,746
—, —, alkali earth amalgam for, 1,261,811
—, —, alkali earth amalgam as catalyst for, 1,220,746
—, —, alkali earth carbide for, 1,234,156
—, —, alkali earth carbide as catalyst for, 1,437,139
—, —, alkali earth cyanide as catalyst for, 1,220,746; 1,437,139
—, —, alkali earth hydroxide as catalyst for, 1,437,139
—, —, alkali earth metal as catalyst for, 1,437,139

Aldol, mfr. of, alkali earth oxide for, 1,234,156
—, —, alkali earth oxide as catalyst for, 1,437,139
—, —, alkali hydroxide for, 1,450,984
—, —, alkali hydroxide as catalyst for, 1,437,139
—, —, alkali metal for, 1,261,811
—, —, alkali metal alloy for, 1,261,811
—, —, alkali metal amalgam for, 1,261,811
—, —, alkali salt for, 1,151,113
—, —, calcium amalgam as catalyst for, 1,220,746
—, —, calcium carbide for, 1,234,156
—, —, calcium carbide as catalyst for, 1,437,139
—, —, calcium oxide for, 1,234,156
—, —, carbonate for, 1,450,984
—, —, carbonate as condensers in mfr. of, 1,450,984
—, —, cyanide for, 1,450,984
—, —, cyanides as condensers in, 1,450,984
—, —, earth alcoholate as catalyst for, 1,220,746
—, —, ether for, 1,220,746
—, —, ethyl alcohol for, 1,151,113; 1,261,811; 1,450,984
—, —, gasolene for, 1,261,811
—, —, glycerol for, 1,151,113
—, —, glycols for, 1,151,113
—, —, hydrochloric acid for, 1,234,156; 1,437,139
—, —, metal carbonate for, 1,151,113
—, —, metal cyanide for, 1,151,113
—, —, metal hydroxide for, 1,151,113
—, —, metal salt for, 1,151,113
—, —, metal sulfite for, 1,151,113
—, —, nitrogen for, 1,437,139
—, —, potassium cyanide as catalyst for, 1,220,746
—, —, potassium hydroxide for, 1,151,113; 1,220,746; 1,450,984
—, —, potassium salt for, 1,151,113
—, —, process for, 1,151,113; 1,220,746; 1,234,156; 1,261,811; 1,437,139; 1,450,984
—, —, sodium for, 1,261,811
—, —, sodium amalgam for, 1,261,811
—, —, sodium bisulfate for, 1,261,811
—, —, sodium ethylate for, 1,151,113
—, —, sodium hydroxide for, 1,151,113; 1,450,984
—, —, sodium hydroxide as catalyst for, 1,437,139
—, —, sodium salt for, 1,151,113
—, —, strontium carbide for, 1,234,156
—, —, strontium carbide as catalyst for, 1,437,139
—, —, strontium oxide for, 1,234,156
—, —, sulfite for, 1,450,984
—, —, sulfite as condensers in, 1,450,984
—, —, sulfuric acid for, 1,450,984
—, minerals floated with condensation products of, 1,378,562
—, tanning agents mfr. with, 1,443,697
—, tanning compound made with, 1,443,697
—, vulcanization accelerator made with, 1,496,792
—, zinc sulfide, lead sulfide, separation of from, using, 1,478,697
—, zinc sulfide, flotation of using, 1,478,697
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Aldol condensation products, preparation of, 1,378,562
Aldol-1-naphthylamine, rubber, age-resisting compound for, made with, 1,515,642
—, vulcanization process using, 1,515,642
Aldol resins, molded article made with, 1,514,508
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Ale, brake lining made with, 1,162,371
—, carbonating of, process for, 1,215,864
—, dealcoholized, mfr. of, apparatus for, 1,487,842
—, —, —, barley malt for, 1,487,842
—, —, —, cereal for, 1,487,842
—, —, —, corn for, 1,487,842
—, —, —, malt for, 1,487,842
—, —, —, maltose for, 1,487,842
—, —, —, process for, 1,487,842
—, —, —, rice for, 1,487,842
—, —, —, wheat for, 1,487,842
—, —, —, wort for, 1,487,842
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—, extract of, 1,290,191; 1,290,192
—, friction lining made with, 1,162,371
—, gasket made with, 1,162,371
—, mfr. of, ammonium caseinate for, 1,214,518
—, —, ammonium phosphate for, 1,214,518
—, —, apparatus for, 1,162,213
—, —, arrowroot starch for, 1,214,518
—, —, banana for, 1,214,518
—, —, barley for, 1,214,518; 1,237,724
—, —, bran for, 1,237,724
—, —, bromelin for, 1,235,881; 1,235,882
—, —, casein for, 1,235,881; 1,235,882
—, —, casein, salt of, for, 1,214,518
—, —, cassava starch for, 1,214,518
—, —, cereal for, 1,214,518
—, —, corn for, 1,214,518; 1,237,724
—, —, corn grits for, 1,214,518
—, —, enzyme, proteolytic, for, 1,235,881; 1,235,882
—, —, grit for, 1,237,724
—, —, hops for, 1,235,881; 1,235,882
—, —, hydrochloric acid for, 1,214,518
—, —, lactic acid for, 1,214,518
—, —, malt for, 1,235,881; 1,235,882; 1,237,724
—, —, middlings for, 1,237,724
—, —, oats for, 1,214,518
—, —, papain for, 1,235,881; 1,235,882
—, —, pepsin for, 1,235,881; 1,235,882
—, —, peptase for, 1,235,881; 1,235,882
—, —, potassium caseinate for, 1,214,518
—, —, potato starch for, 1,214,518
—, —, process for, 1,162,213; 1,214,518; 1,235,881; 1,235,882; 1,237,724; 1,297,013
—, —, process for liberating proteolytic enzymes from yeast during, 1,177,117
—, —, protein for, 1,235,881; 1,235,882
—, —, rice for, 1,214,518; 1,237,724
— —, root for, 1,214,518
—, —, rye for, 1,214,518
—, —, sago starch for, 1,214,518
—, —, sodium caseinate for, 1,214,518
—, —, starch for, 1,214,518; 1,235,881; 1,235,882
—, —, tuber for, 1,214,518
—, —, turbidity removed from, process for, 1,162,213
—, —, wheat for, 1,214,518
—, —, "yeast water" for, 1,214,518
—, oxymethylanthraquinone(?) in, 1,167,230

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—, pale, mfr. of, Burton salts for, 1,156,448
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Aleuritic acid, lac contg., esters of, 1,309,967
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Aleurities oil, see Tung oil
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—, cattle feed made with, 1,172,507
—, coffee substitute made with, 1,195,154
—, fertilizer for, 1,320,701
—, food product made with, 1,195,152; 1,195,153; 1,195,154
—, gas mfr. from, 1,332,529
—, inoculation of, bacterial compost for, 1,320,701
—, molasses, impregnation with of bales of, 1,196,138
—, tea substitute made with, 1,288,727
—, treatment of, process for, 1,195,152; 1,195,153; 1,195,154
—, vitamine source, 1,431,525
Alfalfa extract, mfr. of, alcohol for, 1,195,152
—, —, process for, 1,195,152
—, —, syrup for, 1,195,152
—, —, water for, 1,195,152
Alfalfa flour, mfr. of, process for, 1,195,153
Alfalfa meal, bacterial compost made with, 1,515,016
—, cattle food made with, 1,257,423
—, mixing molasses with, apparatus for, 1,415,851
—, plastic building material contg., 1,344,058
—, poultry food containing, 1,291,518
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—, alginic acid from, 1,348,459
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—, cellulose from, 1,371,611
—, edible, baking compound made with, 1,491,380
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—, extract of, acetone containers coated with, 1,456,494
—, —, alcohol containers coated with, 1,456,494
—, —, baking powder containers coated with, 1,456,494
—, —, benzene containers coated with, 1,456,494
—, —, butter containers coated with, 1,456,494
—, —, buttermilk containers coated with, 1,456,494
—, —, cheese containers coated with, 1,456,494
—, —, containers coated with, 1,456,494
—, —, cotton seed oil containers coated with, 1,456,494
—, —, cream containers coated with, 1,456,494
—, —, fat containers coated with, 1,456,494
—, —, food product containers coated with, 1,456,494
—, —, gasolene containers coated with, 1,456,494
—, —, honey containers coated with, 1,456,494
—, —, ice cream containers coated with, 1,456,494
—, —, kerosene containers coated with, 1,456,494
—, —, lard containers coated with, 1,456,494
Algæ, extract of, linseed oil containers coated with, 1,456,494
—, —, milk product containers coated with, 1,456,494
—, —, molasses containers coated with, 1,456,494
—, —, naphtha containers coated with, 1,456,494
—, —, oil containers coated with, 1,456,494
—, —, olive oil containers coated with, 1,456,494
—, —, paint containers coated with, 1,546,494
—, —, pickles containers coated with, 1,456,494
—, —, salmon containers coated with, 1,456,494
—, —, soda containers coated with, 1,456,494
—, —, turpentine containers coated with, 1,456,494
—, —, varnish containers coated with, 1,456,494
—, —, vinegar containers coated with, 1,456,494
—, formic acid from, 1,371,611
—, iodine from, 1,371,611
—, marine, alkali iodide made using, 1,249,863
—, —, fertilizer made using, 1,249,863
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—, —, potassium iodide made using, 1,249,863
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—, potash salts from, 1,371,611
—, potassium salts from, 1,371,611
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—, —, formaldehyde, solidified, made with, 1,265,463; Re-14,514
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—, —, dextrin made with, 1,267,081
—, —, ethyl alcohol made with, 1,267,081
—, —, maltose made with, 1,267,081
Algerite, cement, Portland, made with, 1,250,291
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Algic jellies, glass prevented from sweating with, 1,369,708
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—, airplane fabric fireproofed with, 1,427,941
—, balloon fabric made with, 1,427,941
—, coffee extract coated with, 1,392,458
—, coffee tablets coated with, 1,367,725
—, fabric, stiffener for, made with, 1,517,520
—, felt, stiffener for, made with, 1,517,520
—, formaldehyde-urea-condensate made with, 1,482,357
—, gelatinous material made from, process for, 1,289,053
—, graphite suspended in, 1,409,658
—, ivory substitute made with, 1,482,357
—, mfr. of, apparatus for, 1,136,390

Algin, mfr. of, calcium bisulfite for, 1,516,917
—, —, digitata for, 1,516,917
—, —, kelp for, 1,136,390
—, —, *Laminaria Flexiculie* for, 1,516,917
—, —, potassium carbonate for, 1,136,390
—, —, process for, 1,136,390; 1,516,917
—, —, seaweed for, 1,516,917
—, —, sodium carbonate for, 1,136,390; 1,516,917
—, —, sulfuric acid for, 1,136,390
—, molded article made with, 1,482,357
—, paper, stiffener for, made with, 1,517,520
—, printing ink contg., 1,404,345
—, shoe stiffener made with, 1,517,520
—, tent fabric made with, 1,427,941
—, underwriters cloth made with, 1,427,941
—, urea-formaldehyde condensate made with, 1,482,357
—, wire-drawing lubricant contg., 1,409,658
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—, cattle feed made with, 1,515,968
—, colloidal, preparation of, ammonia for, 1,415,324
—, concrete water-proofed with, 1,415,324; 1,415,849
—, condiment made with, 1,513,298
—, film, motion picture, made with, 1,361,783
—, fire-proofing, composition for, contg., 1,321,708
—, kelp product made with, 1,513,298
—, liquid, purification of using, 1,515,968
—, metal-, gelling, producing, 1,415,849
—, paper pulp impregnated with, 1,415,850
—, preparation of, 1,415,850
—, solvent for, ammonium hydroxide as, 1,415,850
—, therapeutic product made with, 1,513,298
—, waterproofing with, 1,415,850
—, wood pulp impregnated with, 1,415,850
Alginatos chrondin, film, motion picture, made with, 1,183,698
Alginic acid, aircraft, fire-proof dope for, contg., 1,321,708
—, aircraft fireproofed with, 1,372,478
—, airplane dope made with, 1,312,708
—, alginates from, 1,415,849
—, battery, storage, electrode for, made with, 1,508,732
—, binder made with, 1,509,035
—, cattle feed made with, 1,515,968
—, cellulose, colloidal suspension of, made with, 1,509,035
—, condiment contg., 1,513,298
—, extraction from kelp, 1,395,016
—, fire-proofing, composition for, contg., 1,321,708
—, fuel made with, 1,509,035
—, insulation, heat, made with, 1,509,035
—, iodine compounds made with, 1,509,035
Alginic acid, kelp product contg., 1,513,298
—, liquid, purification of using, 1,515,968
—, mfr. of, aluminum sulfate for, 1,259,486
—, —, *Fucus vesiculosus* for, 1,162,926
—, —, hydrochloric acid for, 1,259,486
—, —, iron chloride for, 1,259,486
—, —, kelp for, 1,259,486
—, —, *Laminaria* for, 1,162,926
—, —, *Laminariaceae Macrocystis* for, 1,508,732
—, —, *Laminariaceae Nereocystis Leetkeana* for, 1,508,732
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—, —, seaweed for, 1,162,926
—, —, sodium hydroxide for, 1,259,486
—, —, *Stenophylla* for, 1,162,926
—, —, sulfuric acid for, 1,259,486
—, potassium alginate from, 1,405,560
—, potassium salts made with, 1,509,035
—, preparation of, sea-weed for, 1,348,459
—, salts of, mfr. of, process for, 1,162,926
—, therapeutic product contg., 1,513,298
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—, linen, dyeing of using, 1,486,353
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Algol blue, cotton, dyeing of using, 1,199,273
—, dyeing process using, 1,199,273
—, silk dyeing of, using, 1,199,273
—, wool, dyeing of, using, 1,199,273
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Algol orange, cotton, dyeing of, using, 1,199,273
—, dyeing process using, 1,199,273
—, silk, dyeing of, using, 1,199,273
—, wool, dyeing of, using, 1,199,273
Algol red paste, cotton, dyeing of using, 1,486,353
—, linen, dyeing of using, 1,486,353
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—, cotton, fabric contg., dyeing of using, 1,517,709
—, linen, fabric contg., dyeing of using, 1,517,709
—, silk, artificial, cellulose acetate, dyeing of using, 1,517,709
—, —, —, —, fabric contg., dyeing of using, 1,517,709
—, wool, fabric, contg., dyeing of using, 1,517,709
Algol scarlet G, cellulose acetate dyed with, 1,448,515; 1,517,709
—, cotton, fabric contg., dyeing of using, 1,517,709
—, linen, fabric contg., dyeing of using, 1,517,709
—, silk, artificial, cellulose acetate, dyeing of using, 1,517,709
—, —, —, —, fabric contg., dyeing of using, 1,517,709
—, wool, fabric contg., dyeing of using, 1,517,709
Algol violet B, cellulose acetate dyed with, 1,448,515; 1,517,709
—, cotton, fabric contg., dyeing of using, 1,517,709

Algol violet B, linen, fabric contg., dyeing of using, 1,517,709
—, silk, artificial, cellulose acetate, dyeing of using, 1,517,709
—, —, —, —, fabric contg., dyeing of using, 1,517,709
—, wool, fabric contg., dyeing of using, 1,517,709
Algol yellow, cotton, dyeing of using, 1,199,273
—, dyeing process using, 1,199,273
—, silk, dyeing of, using, 1,199,273
—, wool, dyeing of, using, 1,199,273
Algol yellow 3 G, dyeing, vat, using, 1,148,966
Algol yellow WG, cellulose acetate dyed with, 1,448,515; 1,517,709
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—, linen, fabric contg., dyeing of using, 1,517,709
—, mfr. of, 1-amino-anthraquinone for, 1,296,602
—, silk, artificial, cellulose acetate, dyeing of using, 1,517,709
—, —, —, —, fabric contg., dyeing of using, 1,517,709
—, wool, fabric contg., dyeing of using, 1,517,709
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—, stuffed, mfr. of, apparatus for, 1,236,998
—, vitamins in, 1,349,524
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—, —, cellulose film for, 1,183,986
—, —, cotton for, 1,183,986
—, —, felt for, 1,183,986
—, —, paraffin for, 1,183,986
—, —, process for, 1,183,986
—, —, varnish for, 1,183,986
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—, *Alizarin assistant, see Castor oil, sulfonated; Turkey red oil*
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—, chlorinating, 1,401,125
—, chromium compound not precipitated by, mfr. of, process for, 1,162,210
—, cotton, dyeing of, using, 1,199,273
—, —, fabric contg., dyeing of using, 1,517,709
—, dyeing process using, 1,199,273
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—, leather, dyeing of using, 1,185,605
—, linen, fabric contg., dyeing of using, 1,517,709
—, mfr. of, air for, 1,150,152
—, —, alkali hydroxide for, 1,355,100
—, —, anthracene for, 1,150,152
—, —, calcium hydroxide for, 1,150,152
—, —, 1.2-chloranthraquinone for, 1,321,271
—, —, 2-chlor anthraquinone for, 1,355,100
—, —, 2-(*p'*-chlorbenzoyl)-benzoic acid for, 1,355,100
Alizarine, mfr. of, 9.10-dihydro-9.10-anthradiol for, 1,150,152
—, —, 9.10-dihydro-10-nitro-9-anthrol nitrate for, 1,150,152
—, —, 9.10-dihydro-9.9.10-trinitro-anthracene for, 1,150,152
—, —, 9.10-dinitro-anthracene for, 1,150,152
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—, —, nitric acid for, 1,150,152
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—, silk, artificial, cellulose acetate, dyeing of using, 1,517,709
—, —, —, —, fabric contg., dyeing of using, 1,517,709
—, —, dyeing of using, 1,199,273
—, wool, dyeing of using, 1,199,273
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—, *see also Dyestuff, alizarins*
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Alizarin indigo G, dyeing, vat, using, 1,148,966
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— cotton, fabric contg., dyeing of using, 1,517,709
—, linen, fabric contg., dyeing of using, 1,517,709
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—, silk, artificial, cellulose acetate, dyeing of using, 1,517,709
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—, —, nickel, made with, 1,266,782
—, catalyst for the mfr. of ammonia made with, 1,201,226
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—, caustic, anti-dimming compound contg., 1,394,774
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—, —, proteids extracted with, 1,427,645
—, celluloid substitute made with, 1,280,862
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—, cellulose, colloidal, made with, 1,458,542
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—, cellulose hydrate, wateproofing of using, 1,499,025
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—, —, cellulose ether made with, 1,188,376
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—, collar, "semi-stiff," made with, 1,490,081
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—, —, sulfidation of with, 1,312,668
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—, copper ore, flotation of with, 1,312,668
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—, cotton treated with, 1,402,040
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—, dextrin, water-proofing of using, 1,499,025
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—, dimethyl ether made with, 1,459,177
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—, disinfecting powder contg., hypochlorites and, 1,339,783
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—, formaldehyde preserved using, 1,481,849
—, formic acid made with, 1,143,114
—, foul brood, combating of using, 1,511,857
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—, hemi-cellulose made with, 1,169,592
—, hemp, water-proofing of using, 1,499,025
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—, liquid, detection in of impurity of, apparatus for, 1,320,036
—, lithopone, colloidal, made with, 1,458,542
—, —, reflocculated, made with, 1,456,112
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—, molded article made with, 1,441,570; 1,514,508; 1,514,509
—, molybdenite, treatment of with, 1,255,144
—, molybdenum ore, treatment of with, 1,255,144
—, mortar, water-proofing of using, 1,519,285
—, moss cleaned with, 1,401,199
—, naphtha made with, 1,221,790
—, naphtha, purification of, using, 1,203,419
—, —, solvent, treatment of using, 1,474,136
—, —, treatment of with, apparatus for, 1,187,797
—, naphthene acid refined with, 1,275,289
—, nickel, welding flux for, made with, 1,224,418
—, nickel alloy, welding flux for, made with, 1,224,418
—, nickel catalyst made with, 1,266,782
—, nitrate, meat cured with, 1,259,376; 1,259,377
—, nitrite, meat cured with, 1,259,376; 1,259,377
—, nitrogen fixation with, 1,441,693; 1,441,695
—, nitro-glycerol, nitro-starch, mixture of and, made with, 1,503,956
—, nitro-starch, nitro-glycerol, mixture of and, made with, 1,503,956
—, nitrogen oxides absorbed by, 1,458,969
—, oat treated with, 1,265,700
—, ochre, reflocculated, made with, 1,456,112
—, oil made with, 1,252,481
—, oil, animal, refining of using, 1,246,379
—, —, chlorination of using, 1,129,165
—, —, mineral, refined using, 1,286,179
—, —, —, purification of, using, 1,500,202
—, —, purification of, using, 1,203,419
—, —, pyridine free, made with, 1,506,385
—, —, vegetable, refining of using, 1,246,379
—, oil cloth, imitation, made with, 1,140,174
—, oil refined with, 1,275,289
Alkali, oil treated with, 1,310,164
—, olive, ripe, treatment of using, 1,154,363
—, ore, copper, flotation of with, 1,312,668
—, —, —, sulfidation of with, 1,312,668
—, —, extraction from of, 1,296,035
—, —, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, organic matter coagulated with, 1,426,596
—, oxy-cellulose, water-proofing of using, 1,449,025
—, paint made with, 1,127,831; 1,168,730
—, paint remover made with, 1,273,307
—, paint skins, treatment of with, 1,279,888
—, paint waste, treatment of with, 1,279,888
—, paper made with, 1,501,924
—, paper, coated, made with, 1,141,951
—, —, grease-proof, made with, 1,476,562
—, —, lithographers, made with, 1,141,951
—, —, parchmentized, waterproofing of using, 1,499,025
—, —, printed, ink removed from using, 1,130,466; 1,138,596; 1,138,597
—, —, sized, water-proofing of using, 1,499,025
—, —, unsized, water-proofing of using, 1,499,025
—, —, water-proof, made with, 1,476,562; 1,499,025
—, paper pulp made with, 1,142,922
—, paracoumarone made with, 1,395,968; 1,515,315
—, paraffin made with, 1,127,465
—, paraffin, chlorination of using, 1,129,165
—, paraffin purified with, 1,277,092
—, paraformaldehyde solvent contg., 1,481,849
—, paraindene made with, 1,395,968
—, pectin product made with, 1,497,884
—, peroxidase made with, 1,324,752
—, petroleum, chlorination of using, 1,129,165
—, —, sludge sulfonic acid, removal of from, using, 1,286,179; 1,493,111
—, —, treatment of with, apparatus for, 1,187,797
— petroleum refined with, 1,286,179
—, petroleum treated with, 1,310,164
—, phenol aldehyde condensate made with, 1,126,926; 1,143,714; 1,187,229; 1,225,748; 1,225,749; 1,225,750; 1,252,507; 1,401,633; 1,500,844
—, phenol aldehyde condensate solvent, 1,188,014
—, phorone made with, 1,370,843
—, phosphate, insoluble, hydrated with, 1,445,167
—, photochemical processes, protection from, compound suitable for, contg., 1,511,874
—, photographic emulsion, protection from, compound suitable for, contg., 1,511,874
—, pigment made with, 1,150,863
—, pigment, colloidal, made with, 1,458,542
—, —, reflocculated, made with, 1,456,112
—, plastic made with, 1,239,094; 1,511,949; 1,513,802
—, platinum, concentration of using, 1,478,237
—, platinum, production of using, 1,281,878
—, platinum group metal, production of using, 1,281,878
—, polyglycols made with, 1,143,114
—, printing plate made with, 1,401,633
—, *iso*-propyl alcohol made with, 1,518,339

Alkali, *iso*-propyl alcohol, deodorizing of using, 1,518,339
—, *protecting animal fibers against, see Fibers animal, protecting against alkalies*
—, proteid silver made with, 1,272,987
—, pyridine, oil free from, made with, 1,506,385
—, pyrotechnic made with, 1,500,844
—, radium made with, 1,438,357
—, ramie, water-proofing of using, 1,499,025
—, record, disk, made with, 1,315,137
—, refractory made with, 1,143,826
—, reflocculated material made with, 1,456,112
—, resins made with, 1,142,922
—, resin, artificial, made with, 1,500,844; 1,513,802
—, —, chlorination of using, 1,129,165
—, rice-straw treated with, 1,313,403
—, roofing made with, 1,511,949
—, roots treated with, 1,251,261
—, rosin made with, 1,142,922; 1,169,592
—, rosin spirit refined using, 1,243,623
—, rubber, hard, substitute, made with, 1,315,137
—, —, reclaiming of using, 1,243,623
—, —, synthetic, made with, 1,248,888
—, —, vulcanization of, using, 1,203,241
—, rust prevented from forming by, 1,395,730
—, rust-proofing using, 1,159,748
—, rye treated with, 1,265,700
—, scheelite, treatment of with, 1,255,144
—, selenium, bismuth, removal from of using, 1,166,721
—, shellac, induration of with, 1,309,967
—, shellac substitute made with, 1,315,137; 1,500,844
—, sienna, reflocculated, made with, 1,456,112
—, silicate, zealite, artificial, made with, 1,140,262
—, siliceous ore digested with, 1,305,969
—, silicic acid sol made with, 1,477,938
—, silk, artificial, made with, 1,141,510; 1,456,540; 1,458,542; 1,484,004
—, —, —, water-proofing of using, 1,499,025
—, —, treatment of, using, 1,496,064; 1,496,065
—, —, weighting of, using, 1,496,064; 1,496,065
—, silk, degummed with, 1,313,235
—, silk thread made with, 1,202,534
—, silk waste degummed with, 1,313,235
—, silver production of using, 1,236,501
—, silver "mill discard," cyanide, recovery of from, using, 1,486,137
—, —, hydrocyanic acid, recovery of from, using, 1,486,137
—, size contg., 1,365,715; 1,365,716; 1,506,081
—, sizing made with, 1,513,802
—, sizing, amylaceous fiber, removal from of, using, 1,505,534
—, —, —, fabric, removal from of, using, 1,505,534
—, sludge sulfonic acid, petroleum, removal from of using, 1,286,179; 1,493,111
—, soap, rosin, made with, 1,169,592
—, soap made from vegetable matter and, 1,342,783
—, soap suds, re-use of with, 1,312,477
—, sodium sludge sulfonates made with, 1,493,111
—, sodium vanadate made with, 1,513,200
Alkali, solution, evaporation of, using, 1,126,471
—, —, cellulose nitrate, screens for, cleaned with, 1,367,111
—, —, cellulose nitrate composition, screens for, cleaned with, 1,367,111
—, "Solvay," straw retted with solution contg., 1,374,941
—, —, *see also Alkali hydroxide*
—, solvent recovery with, 1,368,601
—, speck dye contg., 1,386,201
—, sponge, artificial, made with, 1,142,619
—, stalks treated with, 1,251,261
—, starch, water-proofing of using, 1,499,025
—, starch ethers made with, 1,350,820
—, starch ethers prepared by means of, 1,350,820
—, starch gelatinized with, 1,332,348
—, steel, coloring of, using, 1,439,447
—, —, oxidation of, using, 1,439,447
—, —, sheet, coating for, made with, 1,221,561
—, stone, artificial, made with, 1,249,028
—, straw, water-proofing of using, 1,499,025
—, straw retted with solution contg., 1,374,941
—, straw treated with, 1,251,261
—, sugars made with, 1,143,114
—, sulfating of, air for, 1,159,032; 1,159,033
—, —, apparatus for, 1,159,032; 1,159,033
—, —, manganese dioxide for, 1,159,032; 1,159,033
—, —, nitrogen oxides for, 1,159,032; 1,159,033
—, —, oxygen for, 1,159,032; 1,159,033
—, —, process for, 1,159,032; 1,159,033
—, —, sodium chloride for, 1,159,032; 1,159,033
—, —, sulfur dioxide for, 1,159,032; 1,150,033
—, —, sulfurous acid for, 1,159,032; 1,159,033
—, sulfur, bismuth, removal from of using, 1,166,721
—, —, reflocculated, made with, 1,456,112
—, sulfur concentration of using, 1,478,237
—, sulfur dye made with, 1,346,153; 1,346,154
—, sulfur-phenol resin solvent, 1,435,801
—, sulfur removed from oils by hydrogen sulfide and, 1,357,224
—, tanning compound made with, 1,437,726; 1,500,844
—, tellurium, bismuth, removal from of using, 1,166,721
—, terra cotta made with, 1,249,028
—, tetraglycerol made with, 1,126,467
—, therapeutic product, protection from, compound suitable for, contg., 1,511,874
—, tile made with, 1,249,028
—, tin, bismuth, removal from of using, 1,166,721
—, tin recovered using, 1,359,494
—, toluene made with, 1,252,481
—, toluene, treatment of using, 1,474,136
—, toluene halogenated in presence of, 1,384,909
—, train fat refined with, 1,275,289
—, triglycerol made with, 1,126,467
—, tungsten ore, treatment of with, 1,255,144
—, tungstite, treatment of with, 1,255,144
—, turpentine made with, 1,142,922
—, turpentine substitute made with, 1,127,465
—, ultramarine, colloidal, made with, 1,458,542
—, ultramarine blue, reflocculated, made with, 1,456,112

Alkali, ultra-violet filter, protection from, compound suitable for, contg., 1,511,874
—, ultra-violet light, protection from, compound suitable for, contg., 1,511,874
—, uranium made with, 1,438,357
—, uranium ore, treatment of with, 1,255,144
—, vaccine made using, 1,514,681
—, vanadium made with, 1,438,357; 1,513,200
—, vanadium ore, treatment of with, 1,255,144
—, vanadium oxide recovered with, 1,259,595
—, varnish made with, 1,513,802
—, varnish, asphalt, made with, 1,221,790
—, —, fat soluble, made with, 1,500,844
—, —, oil soluble, made with, 1,500,844
—, varnish remover made with, 1,273,307
—, varnish substitute made with, 1,315,137
—, vehicle body, coating for, made with, 1,221,561; 1,221,562
—, viscose made with, 1,456,540
—, viscose, zinc salt of, dissolved in, 1,140,174
—, viscose filaments treated with, 1,371,300
—, viscose precipitated by, 1,375,823; 1,375,824
—, wall board made with, 1,511,949
—, wall finish made with, 1,513,207
—, water, detection in of impurity of, apparatus for, 1,320,036
—, water-proofing made with, 1,273,307; 1,513,802
—, water purification with, 1,312,552
—, water purifying material contg. silicates and, 1,343,927
—, wax, chlorination of using, 1,129,165
—, wheat cleaned using, 1,221,636
—, wheat treated with, 1,265,700
—, whiting, artificial, made with, 1,264,092
—, whiting substitute made with, 1,264,092
—, willow tree bast, treatment of using, 1,149,876
—, wolframite, treatment of with, 1,255,144
—, wood, water-proofing of using, 1,499,025
—, wood preservation with ammonium-metal sulfates and, 1,409,087
—, wood pulp made with, 1,140,799
—, wood pulp, brown, made with, 1,169,592
—, wood treated with, 1,251,261
—, wool like vegetable fibers made with, 1,384,677
—, wool treated with, 1,197,495; 1,394,655
—, X-ray screen, protection from, compound suitable for, contg., 1,511,874
—, xylene made with, 1,252,481
—, zeolite, artificial, made with, 1,131,503; 1,263,706
—, zinc made with, 1,154,602; 1,236,501
—, zinc, bismuth, removal from of using, 1,166,721
—, zirconium oxide, reflocculated made with, 1,456,112
—, zirconium oxide precipitated by, 1,340,888
—, zirconium silicate treated with, 1,502,422
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Alkali acetate, acetic anhydride made with, 1,326,040
—, acetin made with, 1,509,864
—, acetyl chloride made with, 1,326,040
—, alkali cyanide made with, 1,138,190; 1,138,191 1,417,702
Alkali acetate, ammonia made with, 1,138,191; 1,417,702
—, ammonia producing catalyst made with 1,473,543
—, amyl acetate from, 1,302,583
—, anthraquinone made with, 1,467,258
—, blue print paper made with, 1,500,433
—, butter substitute made with, 1,232,016
—, case hardening using, 1,492,192
—, catalyst made with, 1,473,543
—, catalyst, methyl, acetyl-salicylate made with, 1,255,950
—, —, urea mfr. by, 1,292,019
—, diacetin made with, 1,509,864
—, film, photographic, made with, 1,493,000
—, phenol aldehyde condensate made with, 1,187,232
—, water softening composition contg., 1,399,651
Alkali acetyl salicylate, calcium acetyl-salicylate made with, 1,225,407
—, mfr. of, acetone for, 1,217,862
—, —, acetylsalicylic acid for, 1,129,953; 1,217,862
—, —, alcohol for, 1,129,953; 1,217,862
—, —, alkali bicarbonate for, 1,217,862
—, —, alkali borate for, 1,217,862
—, —, alkali carbonate for, 1,129,953; 1,217,862
—, —, alkali chloride for, 1,217,862
—, —, alkali hydroxide for, 1,129,953; 1,217,862
—, —, alkali nitrate for, 1,217,862
—, —, alkali nitrite for, 1,217,862
—, —, alkali oxide for, 1,217,862
—, —, alkali phosphate for, 1,217,862
—, —, alkali silicate for, 1,217,862
—, —, alkali sulfate for, 1,217,862
—, —, alkali sulfite for, 1,217,862
—, —, ammonium hydroxide for, 1,217,862
—, —, benzene for, 1,217,862
—, —, ether for, 1,129,953; 1,217,862
—, —, hydrocarbon for, 1,217,862
—, —, ligroin for, 1,217,862
—, —, process for, 1,129,953; 1,217,862
—, —, water for, 1,217,862
Alkali acid salt, celluloid substitute made with, 1,280,862
Alkali albuminate, food product made with, 1,199,018
Alkali alcoholate, catalyst, aldol made with, 1,220,746
—, cellulose ether made with, 1,188,376
—, indoxyl, mfr. of, use of, 1,293,680
—, rubber, synthetic, made with, 1,248,888
—, starch ethers made with, 1,350,820
Alkali alginate, alkali aluminum alginate made with, 1,162,926
—, alkali copper alginate made with, 1,162,926
—, alkali zinc alginate made with, 1,162,926
—, preparing, 1,348,459
Alkali alloy, catalyst, aldol made with, 1,220,746
Alkali aluminate, abrasive made with, 1,263,710
—, adhesive made with, 1,248,039
—, alkali carbonate made using, 1,514,657
—, alkali compound made with, 1,263,705
—, alkali hydroxide made with, 1,514,657
—, alkali oxalate made with, 1,281,118
—, aluminum hydroxide made with, 1,251,295; 1,251,296; 1,315,045

Alkali aluminate, aluminum oxide made with, 1,159,989; 1,263,705; 1,315,045; 1,415,280; 1,514,657
—, aluminum sulfate made with, 1,503,603
—, ammonia made with, 1,159,989; 1,415,280
—, brick, sand-lime, made using, 1,514,657
—, calcium silicate made using, 1,514,657
—, cement made with, 1,507,379; 1,514,657
—, condenser electrolyte, 1,326,297
—, cyanides made with, 1,415,280
—, dental cement made with, 1,507,379
—, fabric, fireproofing of, using, 1,225,414; 1,244,145
—, fertilizer made with, 1,518,568; 1,518,569; 1,518,570
—, fireproofing with, 1,224,145; 1,225,414; 1,397,858
—, formation of, 1,408,169
—, glue, vegetable, made with, 1,248,039
—, heater, electric, made with, 1,507,379
—, lightning electrolyte, 1,326,297
—, mfr. of, albite for, 1,508,777
—, —, alkali aluminum silicates for, 1,151,498; 1,151,533; 1,508,777
—, —, alkali carbonate for, 1,285,796; 1,495,498; 1,508,777
—, —, alkali earth compound for, 1,151,498; 1,151,533
—, —, alkali earth orthosilicate for, 1,285,796
—, —, alkali earth oxide for, 1,151,498; 1,151,533; 1,285,796; 1,495,498; 1,508,777
—, —, alkali earth salt for, 1,151,498; 1,151,533
—, —, alkali hydroxide for, 1,271,192; 1,285,796; 1,495,498; 1,508,777
—, —, aluminum silicates for, 1,271,192
—, —, bauxite for, 1,271,192; 1,508,777
—, —, calcium carbonate for, 1,508,777
—, —, calcium chloride for, 1,151,498; 1,151,533; 1,508,777
—, —, calcium oxide for, 1,151,498; 1,151,533; 1,508,777
—, —, calcium silicate for, 1,508,777
—, —, carbon for, 1,508,777
—, —, clay for, 1,508,777
—, —, dolomite for, 1,151,498; 1,151,533
—, —, feldspar for, 1,151,498; 1,151,533; 1,285,796; 1,495,498; 1,508,777
—, —, leucite for, 1,151,498; 1,151,533; 1,285,796; 1,495,498; 1,508,777
—, —, lime for, 1,151,498; 1,151,533; 1,508,777
—, —, limestone for, 1,151,498; 1,151,533; 1,495,498; 1,508,777
—, —, magnesium carbonate for, 1,508,777
—, —, magnesium chloride for, 1,151,498; 1,151,533
—, —, magnesium oxide for, 1,508,777
—, —, orthoclase for, 1,508,777
—, —, potassium carbonate for, 1,285,796; 1,495,498
—, —, potassium hydroxide for, 1,508,777
—, —, process for, 1,151,498; 1,151,533; 1,271,192; 1,285,796; 1,495,498; 1,508,777
—, —, silicates for, 1,151,498; 1,151,533; 1,285,796; 1,495,498
—, —, silicon dioxide for, 1,508,777
—, —, sodium aluminum silicate for, 1,508,777
—, —, sodium carbonate for, 1,151,498; 1,151,533
Alkali aluminate, mfr. of, sodium chloride for, 1,508,777
—, —, sodium hydroxide for, 1,508,777
—, —, zeolite for, 1,508,777
—, plastic made with, 1,507,379
—, porcelain made with, 1,507,379
—, rectifier electrolyte, 1,326,297
—, resistance, electric, made with, 1,507,379
—, silicon dioxide made with, 1,415,280
—, silicon nitrogen compounds prepared with, 1,415,280
—, silicon nitride made with, 1,415,280
—, sodium oxalate made with, 1,281,118
—, stereotype matrix made with, 1,173,907
—, waterproofing using, 1,224,145
—, zeolite artificial, made with, 1,208,797; 1,263,707
Alkali aluminate silicate, see Zeolite, artificial
Alkali aluminum alginate, cardboard coated with, 1,162,926
—, fabric coated with, 1,162,926
—, leather coated with, 1,162,926
—, mfr. of, alkali alginate for, 1,162,926
—, —, alum for, 1,162,926
—, —, aluminum sulfate for, 1,162,926
—, —, ammonium hydroxide for, 1,162,926
—, —, process for, 1,162,926
—, paper coated with, 1,162,926
—, pasteboard coated with 1,162,926
—, textile coated with, 1,162,926
Alkali aluminum carbonate, fabric, fireproofing of, using, 1,225,414
—, fireproofing using, 1,225,414
Alkali aluminum fluoride, aluminum, steel coated with, made with, 1,488,553
—, mfr. of, acid for, 1,517,686
—, —, alkali chloride for, 1,517,686
—, —, alkali fluoride for, 1,517,686
—, —, alkali sulfate for, 1,517,686
—, —, aluminum salts for, 1,517,686
—, —, argil for, 1,517,686
—, —, hydrochloric acid for, 1,517,686
—, —, hydrofluoric acid for, 1,517,686
—, —, hydrogen sulfide for, 1,517,686
—, —, potassium fluoride for, 1,517,686
—, —, potter's earth for, 1,517,686
—, —, process for, 1,517,686
—, —, sodium chloride for, 1,517,686
—, —, sodium fluoride for, 1,517,686
—, —, sulfuric acid for, 1,517,686
—, steel, aluminum coated, made with, 1,488,553
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Alkali aluminum silicates, alkali aluminate made with, 1,151,498; 1,151,533; 1,508,777
—, alkali compound made using, 1,151,498; 1,151,533
—, alumina made with, 1,508,777
—, fertilizer made with, 1,508,777
—, mfr. of, alkali chloride for, 1,123,693
—, —, apparatus for, 1,123,693
—, —, bauxite for, 1,123,693
—, —, clay for, 1,123,693
—, —, feldspar, for, 1,123,693
—, —, feldspar, potash, for, 1,123,693
—, —, process for, 1,123,693
—, —, sodium chloride for, 1,123,693

Alkali amalgam, boiler compound made with, 1,181,562
—, catalyst, aldol made with, 1,220,746
—, mfr. of, alkali chloride for, 1,190,845
—, —, mercury for, 1,190,845
—, —, process for, 1,190,845
Alkali amide, acetone, action of and, 1,169,341
—, alkali hydroxide made with, 1,198,987
—, alkali metal, lead alloy contg., treatment of using, 1,197,329
—, cyclohexanone, action of and, 1,169,341
—, cyclopentanone, action of and, 1,169,341
—, diethyl ketone, action of and, 1,169,341
—, ethyl methyl ketone, action of and, 1,169,341
—, gases purified with, 1,436,949
—, lead alloy, alkali metal in, treatment of using, 1,197,329
—, —, potassium in, treatment of using, 1,197,329
—, —, sodium in, treatment of using, 1,197,329
—, mfr. of, acetylene for, 1,163,498
—, —, alkali chloride for, 1,163,498
—, —, alkali hydroxide for, 1,163,498
—, —, alkali metal for, 1,163,498
—, —, alkali metals, ammonia and catalyst for, 1,359,080
—, —, ammonia for, 1,163,498
—, —, apparatus for, 1,159,154
—, —, carbon for, 1,163,498
—, —, carbon electrode for, 1,163,498
—, —, coal gas for, 1,163,498
—, —, copper cathode for, 1,163,498
—, —, electrolytic process for, 1,159,154
—, —, graphite electrode for, 1,163,498
—, —, lead for, 1,163,498
—, —, lead alloy for, 1,163,498
—, —, mercury for, 1,163,498
—, —, mercury alloy for, 1,163,498
—, —, nickel cathode for, 1,163,498
—, —, nitrogenous matter for, 1,163,498
—, —, platinum anode for, 1,163,498
—, —, process for, 1,159,154; 1,163,498
—, —, tin for, 1,183,498
—, —, tin alloy for, 1,163,498
—, methyl propyl ketone, action of and, 1,169,341
—, potassium, lead alloy contg., treatment of using, 1,197,329
—, sodium, lead alloy contg., treatment of using, 1,197,329
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Alkali arsenate, alkali oxalate made with, 2,281,117
—, condenser electrolyte, 1,255,391
—, lightning arrester electrolyte, 1,255,391
—, rectifier electrolyte, 1,255,391
—, sodium oxalate made with, 1,281,117
—, wood, fungi, preservation from attacks by of with composition contg., 1,182,760
—, —, insects, preservation from attacks by of with composition contg., 1,182,760
—, —, molds, preservation from attacks of by with composition contg., 1,182,760
—, —, parasites, preservation from attacks by of with composition contg., 1,182.760
—, —, teredo, preservation from attacks by of with composition contg., 1,182,760
Alkali arsenite, alkali oxalate made with, 1,281,117
—, animal dip made with, 1,137,844
—, cattle dip made with, 1,498,639
—, condenser electrolyte, 1,255,391
—, formaldehyde made with, 1,143,114
—, insecticide made with, 1,137,844
—, lightning arrester electrolyte, 1,255,391
—, paraformaldehyde, solvent for, contg., 1,170,624
—, rectifier electrolyte, 1,255,391
—, sheep dip made with, 1,498,639
—, sodium oxalate made with, 1,281,117
—, Texas fever tick, animal dip for, made with, 1,137,844
—, trioxymethylene, solvent for contg., 1,170,624
—, zinc arsenite from, 1,296,344
Alkali benzene sulfonate, mfr. of, process for, 1,260,852
—, phenol from, 1,260,852
Alkali benzoate, alkali cacodylate, action of on, 1,297,952
—, mfr. of, alkali carbonate for, 1,463,255
—, —, alkali hydroxide for, 1,463,255
—, —, dibenzyl for, 1,463,255
—, —, iron compound for, 1,463,255
—, —, manganese dioxide for, 1,463,255
—, —, process for, 1,463,255
—, —, sodium hydroxide for, 1,463,255
—, —, sodium manganese for, 1,463,255
Alkali benzyl citrates, antispasmodic, 1,485,377
—, mfr. of, process for, 1,485,377
Alkali benzyl malonates, antispasmodic, 1,485,377
—, mfr. of, process for, 1,485,377
Alkali benzyl phosphates, antispasmodic, 1,485,377
—, mfr. of, process for, 1,485,377
Alkali benzylphthalate, antispasmodic, 1,485,377; 1,485,378
—, mfr. of, alcohol for, 1,485,377; 1,485,378
—, —, alkali carbonate for, 1,485,377; 1,485,378
—, —, alkali hydroxide for, 1,485,377; 1,485,378
—, —, benzyl phthalate for, 1,485,377; 1,485,378
—, —, process for, 1,485,377; 1,485,378
Alkali benzyl succinate, antispasmodic, 1,485,377; 1,485,379
—, mfr. of, acetone for, 1,485,377; 1,485,379
—, —, alcohol for, 1,485,377; 1,485,379
—, —, alkali carbonate for, 1,485,377; 1,485,379
—, —, alkali hydroxide for, 1,485,377; 1,485,379
—, —, benzyl succinate for, 1,485,377; 1,485,379
—, —, process for, 1,485,377; 1,485,379
Alkali benzyl sulfates, antispasmodic, 1,485,377
—, mfr., of, process for, 1,485,377
Alkali benzyl tartrates, antispasmodic, 1,485,377
—, mfr. of, process for, 1,485,377
Alkali bicarbonate, adrenaline made with, 1,399,144
—, alkali acetyl-salicylate made with, 1,217,862
—, alkali cyanide made with, 1,138,190; 1,138,191
—, alkali earth acetyl-salicylate made with, 1,217,862
—, alkali sulfite made with, 1,164,649
—, alkali tungstate made with, 1,261,383

Alkali bicarbonate, alkaloids extracted by, 1,447,400
—, alloys, treatment of with, 1,471,751
—, aluminum hydroxide made with, 1,324,318
—, aluminum oxide, treatment of with, 1,471,751
—, ammonia made with, 1,138,191; 1,483,413
—, ammonia made with gases purified using compound made from, 1,483,413
—, antiseptic made with, 1,493,564
—, barium acetyl-salicylate made with, 1,217,862
—, barium sulfate, treatment of with, 1,471,751
—, barley-corn glumes, lupuline, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
—, bismuth acetyl-salicylate made with, 1,217,862
—, calcium carbonate, magnesium carbonate, separation from of using, 1,512,924
—, calcium acetyl-salicylate made with, 1,217,862
—, carbon dioxide made with, 1,164,649; 1,266,595; 1,482,367; 1,482,368
—, cerium acetyl-salicylate made with, 1,217,862
—, chromite, treatment of with, 1,471,751
—, cinnabar, treatment of with, 1,471,751
—, copper silicate, treatment of with, 1,471,751
—, cotton seed oil foots, treatment of using, 1,232,913
—, cresol-formaldehyde condensates mfr. with, 1,437,726
—, 3.4-diacetoxy-*a*-nitromethyl-benzyl alcohol made with, 1,399,144
—, didymium acetyl-salicylate made with, 1,217,862
—, difficultly soluble material rendered soluble using, 1,471,751
—, enamel, opaque, made with, 1,492,578
—, ethers made with, 1,459,177
—, fat, refining of using, 1,147,392
—, ferrites, treatment of with, 1,471,751
—, fire-extinguisher contg., 1,306,707
—, " foots," treatment of using, 1,232,913
—, formates made with, 1,204,933
—, formic acid made with, 1,204,933
—, germicide made with, 1,493,564
—, glycol made with, 1,237,076
—, heat producing compound contg., 1,126,055
—, hide, bating of using, 1,170,426
—, hydrochloric acid in soluble material rendered soluble using, 1,471,751
—, iron(ic) oxide, treatment of with, 1,471,751
—, iron oxide (Fe_3O_4) treatment of with, 1,471,751
—, lithium acetyl-salicylate made with, 1,217,862
—, lupuline, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, magnesium acetyl-salicylate made with, 1,217,862
—, magnesium carbonate made with, 1,512,924
—, magnesium carbonate, calcium carbonate, separation from of using, 1,512,924
Alkali bicarbonate, manganese dioxide, treatment of with, 1,471,751
—, manganese oxide (Mn_2O_3) treatment of with, 1,471,751
—, mfr. of, alkali sulfide for, 1,138,190
—, —, carbon dioxide for, 1,138,190
—, —, process for, 1,221,506
—, —, water for, 1,138,190
—, metal, treatment of with, 1,471,751
—, mineral, treatment of with, 1,471,751
—, molybdenum extracted with, 1,399,554
—, nickel silicates, treatment of with, 1,471,751
—, nitric acid insoluble material rendered soluble using, 1,471,751
—, oil, refining of using, 1,147,392
—, ore, treatment of with, 1,471,751
—, potassium acetyl-salicylate made with, 1,217,862
—, potassium silicates, treatment of with, 1,471,751
—, record, disk, made with, 1,315,137
—, rubber, hard, substitute, made with, 1,315,137
—, rubber purified with, 1,418,271
—, shellac substitute made with, 1,315,137
—, silicic acid made with, 1,324,318
—, silver acetyl-salicylate made with, 1,217,862
—, skin, bating of using, 1,170,426
—, sodium acetyl-salicylate made with, 1,217,862
—, sodium sulfite made with, 1,266,595
—, strontium acetyl-salicylate made with, 1,217,862
—, sulfide ore, treatment of with, 1,471,751
—, sulfuric acid insoluble material rendered soluble using, 1,471,751
—, tanning compound made with, 1,443,697
—, testilupine, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, testin acid, barley corn glumes, removal of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, 3.5.3′.5′-tetramino-2.2′-dibrom-4.4′-di(methylamino)-arseno-benzene action on of, 1,265,865
—, 3.5.3′.5′-tetramino-2.2′-dichlor-4.4′-di(methylamino)-arseno-benzene action on of, 1,265,865
—, 3.5.3′.5′-tetramino-2.2′.6.6′-tetrachlor-4.4′-di(methylamino)-arsenobenzene, action on of, 1,265,865
—, 3.5.3′.5′-tetramino-2.4.2′.4′-tetra(methylamino)-arsenobenzene, action on of, 1,265,865
—, tin dioxide, treatment of with, 1,471,751
—, varnish, substitute made with, 1,315,137
—, yeast, lupuline, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
—, zinc acetyl-salicylate made with, 1,217,862
—, zinc silicates, treatment of with, 1,471,751
Alkali bichromate, chromium oxide, green, made with, 1,158,379
—, lead chromate, basic, made with, 1,181,172
—, mfr. of, acetone for, 1,310,720
—, —, alkali carbonate for, 1,492,636
—, —, carbon for, 1,492,636
—, —, carbon dioxide for, 1,310,720

Alkali bichromate, mfr. of, chromate for, 1,310,720
—, —, chromite for, 1,492,636
—, —, ethyl alcohol for, 1,310,720
—, —, ferro-chromium anode for, 1,492,636
—, —, hydrochloric acid for, 1,310,720
—, —, lead cathode for, 1,492,636
—, —, methyl alcohol for, 1,310,720
—, —, pitch for, 1,492,636
—, —, process for, 1,492,636
—, —, sulfuric acid for, 1,310,720
—, printing plate made with, 1,508,089
—, shellac solvent contg., 1,303,782
Alkali bisulfate, alkali dichromate made with, 1,326,123
—, alumina, treatment of using, 1,364,804
—, aluminum, soldering flux for contg., 1,139,923
—, —, welding flux for contg., 1,139,923
—, aluminum alloy, soldering flux for, contg., 1,139,923
—, —, welding flux for, contg., 1,139,923
—, alloys, treatment of using, 1,364,804
—, barite, treatment of using, 1,364,804
—, barium sulfate, treatment of using, 1,364,804
—, battery, storage, lead electrode for, regeneration of using, 1,147,261
—, calcium phosphate ($CaHPO_4$) made with, 1,493,099
—, chromite, treatment of using, 1,364,804
—, cinnabar, treatment of using, 1,364,804
—, compound, heat-producing, contg., 1,309,209
—, copper silicates, treatment of using, 1,364,804
—, copper sulfide, treatment of using, 1,364,804
—, enamel, iron, made with, 1,256,456
—, ferrites, treatment of using, 1,364,804
—, fertilizer made with, 1,162,944; 1,173,303
—, iron(ic) oxide, treatment of using, 1,364,804
—, iron oxide (Fe_3O_4), treatment of using, 1,364,804
—, manganese dioxide, treatment of using, 1,364,804
—, manganese oxide (Mn_2O_3), treatment of using, 1,364,804
—, nickel silicates treatment of using, 1,364,804
—, phosphoric acid made with, 1,493,099
—, potassium silicates, treatment of using, 1,364,804
—, serpentine, treatment of using, 1,364,804
—, silicate, treatment of using, 1,364,804
—, silk, artificial, viscose, precipitation of, using, 1,393,197
—, sodium phosphate (NaH_2PO_4), made with, 1,493,099
—, tanning material from cellulose sulfite liquors by, 1,414,312
—, tin dioxide, treatment of using, 1,364,804
—, titanates, treatment of using, 1,364,804
—, vanadium compound made with, 1,482,276
—, vanadium sulfate made with, 1,482,276
—, zeolite, artificial, made with, 1,140,262
—, zinc silicates, treatment of using, 1,364,804
Alkali bisulfite, alkali hyposulfite made from, 1,477,130
—, alkali sulfite made with, 1,164,649
—, carbohydrate, nitrated, made using, 1,504,986
—, —, —, stabilized, using, 1,504,986
—, carbon dioxide made with, 1,164,649
Alkali bisulfite, cellulose, filamentous, made with, 1,128,624
—, cellulose, hydrated, made with, 1,128,624
—, cellulose acetate made with, 1,128,624
—, cellulose ether made with, 1,128,624
—, dextrin treated with, 1,268,672
—, envelope gum made with, 1,268,672
—, explosive made with, 1,128,624
—, fabric made with, 1,128,624
—, linen, bleaching of, using, 1,501,553
—, nitrodextrin made using, 1,504,986
—, nitrodextrin stabilized using, 1,504,986
—, nitrostarch made using, 1,504,986
—, nitrostarch stabilized using, 1,504,986
—, plastic made with, 1,128,624
—, silk, artificial, made with, 1,128,624
—, zeolite, artificial, made with, 1,140,262
Alkali blue, rubber colored with, 1,342,457
—, vulcanization process using, 1,342,457
Alkali blue R. S., cotton blued with, 1,404,242
Alkali blue 4B, dyeing with, 1,441,240
Alkali borate, alkali acetyl-salicylate made with, 1,217,862
—, alkali perborate made with, 1,235,904; 1,235,905; 1,253,060; 1,253,061; 1,268,369; 1,281,983
—, alkali sulfide made with, 1,312,668
—, aluminum oxide made with, 1,415,280
—, ammonia made with, 1,415,280
—, bicarbonate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, bleaching using, 1,163,438
—, borax from, 1,259,717; 1,259,718; 1,259,719
—, boric acid from, 1,259,717; 1,259,718; 1,259,719
—, calcium nitrate made with, 1,259,717; 1,259,718; 1,259,719
—, calcium nitrate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, calcium oxide from, 1,259,717; 1,259,718; 1,259,719
—, carbonate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, catalyst made with, 1,199,032
—, catalyst, hydrogenation, made with, 1,199,032
—, —, —, regeneration of, using, 1,199,032
—, copper carbonate ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper oxide ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, cotton, bleaching of, using, 1,163,438
—, cyanides made with, 1,415,280
—, electrode, arc lamp, made with, 1,132,313; 1,221,039
—, fat, refining of using, 1,147,392
—, hydrochloric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, hydrogenation, catalyst for, made with, 1,199,032
—, —, —, regeneration of, using, 1,199,032
—, insecticide contg., 1,395,860
—, linen, bleaching of, using, 1,163,438
—, methylamine made with, 1,489,380

Alkali borate, nitric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, oil, refining of using, 1,147,392
—, ore, copper, flotation of with, 1,312,668
—, —, —, sulfidation of with, 1,312,668
—, —, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, oxygen made with, 1,124,304
—, potassium carbonate made with, 1,215,517; 1,215,518
—, potassium compound made with, 1,215,517; 1,215,518
—, shellac solvent contg., 1,303,782
—, silicon dioxide made with, 1,415,280
—, silicon nitride made with, 1,415,280
—, silicon nitrogen compounds prepared with, 1,415,280
—, sodium nitrate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sodium perborate made with, 1,281,983
—, sulfate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sulfide, soluble, made with, 1,310,151
—, sulfuric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, water softener contg., 1,162,024
Alkali borosilicate, bicarbonate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, borax from, 1,259,717; 1,259,718; 1,259,719
—, boric acid from, 1,259,717; 1,259,718; 1,259,719
—, calcium nitrate, treatment with of, 1,249,717; 1,259,718; 1,259,719
—, calcium oxide from, 1,259,717; 1,259,718; 1,259,719
—, carbonate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, hydrochloric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, nitric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sodium nitrate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sulfate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sulfuric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sulfurous acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
Alkali bromate, bread made with, 1,148,328
—, formation of in bromide mfr., preventing, mananous compounds for, 1,437,740
Alkali bromide, bromine made with, 1,267,638
—, mfr. of, 1,437,740
—, nitrosyl bromide made with, 1,267,638
—, silver bromide dissolved with, 1,404,737
Alkali cadmium alginate, cardboard coated with, 1,162,926
—, fabric coated with, 1,162,926
—, leather coated with, 1,162,926
—, mfr. of, process for, 1,162,926
—, paper coated with, 1,162,926
—, pasteboard coated with, 1,162,926
—, textile coated with, 1,162,926
Alkali cacodylate, alkali benzoate, action on of, 1,297,952
Alkali carbide, catalyst for the mfr. of ammonia made with, 1,352,178
—, mfr. of, alkali oxide for, 1,129,510
—, —, apparatus for, 1,129,510
—, —, carbon for, 1,129,510
—, —, nitrogen for, 1,129,510
—, —, process for, 1,129,510
—, —, producer gas for, 1,129,510
Alkali carbolate, flotation oil made with, 1,506,385
—, oil, pyridine free, made with, 1,506,385
—, pyridine, oil free from, made with, 1,506,385
—, *see also Alkali cresolate; Alkali phenolate*
Alkali carbonate, abrasive made with, 1,263,710
—, acetylene chlorinated with chlorine and, 1,425,669
—, acetyl-salicylic acid, composition of and, 1,486,002
—, adhesive made with, 1,311,965; 1,373,412
—, adrenaline made with, 1,399,144
—, albuminous product made from, 1,169,634
—, alcohol made with, 1,245,818; 1,253,055
—, alcohol dehydrated with, 1,466,435; Re-15,783
—, aldol made with, 1,220,746
—, alkali acetylsalicylate made with, 1,129,953; 1,217,862
—, alkali aluminate made with, 1,285,796; 1,495,498; 1,508,777
—, alkali benzoates made with, 1,463,255
—, alkali benzyl phthalate made with, 1,485,377; 1,485,378
—, alkali benzyl succinate made with, 1,485,377; 1,485,379
—, alkali compound made with, 1,283,951; 1,285,796; 1,495,498
—, alkali cyanamide made with, 1,174,667; 1,174,668; 1,483,411
—, alkali cyanide made with, 1,138,190; 1,138,191; 1,312,842; 1,322,195; 1,358,383; 1,417,702; 1,472,403; 1,481,373; 1,481,374; 1,483,411; 1,496,467; 1,498,637
—, alkali earth oxide, mixture of and, 1,342,148
—, alkali earth acetyl-salicylate made with, 1,217,862
—, alkali ferrocyanide made with, 1,259,702
—, alkali manganate made with, 1,318,891
—, alkali perborate made with, 1,268,369; 1,281,983
—, alkali percarbonate made with, 1,225,722; 1,225,832; 1,225,872; 1,235,904; 1,235,905
—, alkali permanganate made with, 1,318,891
—, alkali silicate made with, 1,463,037
—, alkali sulfide made with, 1,312,668
—, alkali sulfite made with, 1,164,649
—, alkali tungstate made with, 1,261,383
—, alkaloids extracted by, 1,447,400
—, allocain A made with, 1,399,312
—, allocain S made with, 1,399,312
—, alloys, treatment of with, 1,471,751
—, alum clay contg., extraction from of, 1,308,429
—, alumina made with, 1,508,777
—, aluminum treated with, 1,130,196
—, aluminum, acid resistant, made with, 1,130,196
—, —, alkali resistant, made with, 1,130,196

Alkali carbonate, aluminum compounds contg., extraction from of, 1,308,429
—, aluminum hydroxide made with, 1,324,318
—, aluminum oxide made with, 1,228,119; 1,262,062; 1,285,796; 1,415,280
—, aluminum oxide, treatment of with, 1,471,751
—, ammonia made with, 1,138,191; 1,149,653; 1,206,155; 1,415,280; 1,417,702; 1,483,413; 1,483,414
—, ammonia, catalyst for the mfr. of, made with, 1,157,253; 1,206,155; 1,483,412
—, —, liquid, solubility in of, 1,314,231
—, ammonia made with gases purified with compound made with, 1,483,413; 1,483,414
—, ammonium phosphate made with, 1,270,515
—, amyl alcohols made with, 1,214,919; 1,221,667
—, animal dip made with, 1,137,844
—, anthraquinone purified with, 1,404,056
—, antimony made with, 1,144,402; 1,146,373
—, antimony sulfate, basic, made with, 1,185,005
—, antiseptic made with, 1,145,634; 1,493,564
—, arsenic made with, 1,144,402; 1,146,373
—, *N*-(*p*-arsinosophenyl)glycylanthranilic acid made with, 1,280,122
—, *N*-(*p*-arsonophenyl)-*a*-phenyl-glycinureide made with, 1,280,120; 1,280,125
—, azo-resins made with, 1,500,844
—, bactericide made with, 1,145,634
—, baking powder made with, 1,134,956; 1,264,592
—, barium acetyl-salicylate made with, 1,217,862
—, barium sulfate, treatment of with, 1,471,751
—, barley corn glumes, lupuline, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
—, bauxite contg., extraction from of, 1,308,429
—, beer made with, 1,149,704
—, benzoates made with, 1,463,255
—, benzoic acid made with, 1,463,255
—, beryllium carbonate made with, 1,216,980; 1,216,981
—, beryllium hydroxide made with, 1,216,980; 1,216,981
—, beryllium oxide made with, 1,216,980; 1,216,981
—, binder made with, 1,509,035
—, bismuth made with, 1,144,402; 1,146,373
—, bismuth acetyl-salicylate made with, 1,217,862
—, bismuth sulfate, basic, made with, 1,185,005
—, bleaching using, 1,163,438
—, blue print paper made with, 1,500,433
—, board made with, 1,245,984
—, bornite, zinc sulfide separated from using, 1,469,042
—, bucking vegetable matter using, 1,156,048
—, 1.2-butanediol made with, 1,213,367
—, 1.2-butanediol, nitrated, made with, 1,213,367
—, 2.3-butanediol made with, 1,213,367
—, 2.3-butanediol, nitrated, made with, 1,213,367
—, butylene glycol made with, 1,270,759
—, butyl ether dehydrated with, 1,466,435; Re-15,783
Alkali carbonate, cadmium made using, 1,144,402; 1,146,373
—, calcium acetyl-salicylate made with, 1,217,862
—, calcium carbonate, magnesium carbonate, separation from of, using, 1,512,924
—, calcium chloride made with, 1,253,055
—, calcium phosphate (CaH_4) made with, 1,270,515
—, carbon, activated, made with, 1,505,496
—, —, decolorizing, revivifying of, using, 1,189,896
—, carbon dioxide made with, 1,164,649; 1,266,595
—, carbon dioxide, nitrogen, separation from of using, 1,287,472
—, carvacrol made with, 1,265,800
—, case hardening with, 1,279,457; 1,279,458; 1,492,192
—, cassiterite, flotation of, using, 1,497,310
—, catalyst, urea made with, 1,274,503; 1,292,019
—, catalyst for the mfr. of ammonia made with, 1,157,253; 1,206,155; 1,483,412
—, catalyst for the mfr. of hydrogen made with, 1,330,772
—, catalyst in phenol-acetone condensation, 1,397,144
—, celluloid substitute made with, 1,245,818; 1,245,976; 1,245,983; 1,245,984; 1,275,324; 1,280,862; 1,379,351; 1,427,645
—, cellulose, colloidal suspension of, made with, 1,509,035
—, cellulose nitrate, screens for, cleaned with, 1,367,111
—, cellulose nitrate compositions, screens for, cleaned with, 1,367,111
—, cellulose xanthogenate made with, 1,379,351
—, cement made with, 1,507,379
—, cereal, proteid extracted from with, 1,321,479; 1,321,480
—, cerium acetyl-salicylate made with, 1,217,862
—, chalcopyrite, zinc sulfide separated from using, 1,469,042
—, charcoal, decolorizing, made with, 1,358,162
—, chromite, treatment of with, 1,471,751
—, chromium hydroxide made with, 1,486,961
—, chromium potassium sulfate made with, 1,486,961
—, cinnabar, treatment of with, 1,471,751
—, clay contg., extraction from of, 1,308,429
—, cobalt made with, 1,146,373
—, compound, heat-producing, contg., 1,309,209
—, copper production of using, 1,144,402; 1,146,373; 1,185,005; 1,440,186; 1,509,774
—, copper carbonate ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper compound made with, 1,228,119
—, copper ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper oxide ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper silicates, treatment of with, 1,471,751
—, copper sulfate made with, 1,185,005
—, corn, proteid extracted from with, 1,321,479; 1,321,480

Alkali carbonate, cotton, bleaching of, using, 1,163,438
—, —, mercerized, fabric, treatment of using, 1,515,691
—, cotton fabric, treatment of using, 1,515,691
—, cotton seed oil made with, 1,278,073; 1,278,075; 1,278,076
—, cresol-formaldehyde condensate mfr. with, 1,437,726
—, cyanides made with, 1,206,155; 1,309,903; 1,322,195; 1,358,161; 1,415,280
—, cyanide gases, loss of, prevented during treatment of ore by using, 1,158,514
—, dental cement made with, 1,507,379
—, detergent made with, 1,165,498
—, dextrose made with, 1,139,620
—, 3.4-diacetoxy-*a*-nitromethyl-benzyl alcohol made with, 1,399,144
—, diethyl ketone dehydrated with, 1,466,435; Re-15,783
—, *N.N*-diethyl-mydriatin made with, 1,399,312
—, didymium acetyl-salicylate made with, 1,217,862
—, difficultly soluble material rendered soluble using, 1,471,751
—, dyestuff made with, 1,323,263; 1,460,315; 1,500,844
—, dyestuff, bucking of using, 1,156,048
—, earth contg., extraction from of, 1,308,429
—, electrode, arc lamp, made with, 1,132,313
—, enamel, iron, made with, 1,256,456
—, —, opaque, made with, 1,123,760
—, —, white, made with, 1,123,760
—, ethers made with, 1,459,177
—, ethylene glycol made with, 1,270,759
—, ethyl ether dehydrated with, 1,466,435; Re-15,783
—, ethyl methyl ketone dehydrated with, 1,466,435; Re-15,783
—, *N*-ethyl-mydriatin made with, 1,399,312
—, ethyl propyl ether dehydrated with, 1,466,435; Re-15,783
—, explosive made with, 1,213,367
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, fat hydrogenated with, 1,472,882
—, fatty acid hydrogenated with, 1,472,882
—, ferrites, treatment of with, 1,471,751
—, ferro-molybdenum made with, 1,278,408
—, fertilizer made with, 1,158,711; 1,162,802; 1,162,944; 1,221,979; 1,229,684; 1,266,198; 1,267,473; 1,289,789; 1,508,777
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, —, vegetable, bleached with, 1,251,614
—, filament, artificial, cellulose acetate, hollow, made with, 1,487,807
—, —, —, cellulose nitrate, hollow, made with, 1,487,807
—, —, —, gelatin, hollow, made with, 1,487,807
—, —, —, hollow, made with, 1,487,807
—, —, —, cuprammonium cellulose, hollow, made with, 1,487,807
—, —, —, viscose, hollow, made with, 1,487,807
—, film, photographic, made with, 1,493,000
—, fire-extinguisher contg., 1,278,716; 1,306,707
Alkali carbonate, floor covering made with, 1,245,984; 1,421,086
—, flotation process using, 1,182,890; 1,469,042; 1,486,297; 1,497,319
—, fluorescent substances, protection from, compound suitable for, contg., 1,511,874
—, food product made with, 1,245,818; 1,275,324
—, formaldehyde made with, 1,143,114
—, formates made with, 1,206,155
—, fuel made with, 1,509,035
—, fuse, electric, safety, made with, 1,288,724
—, fusel oil, synthetic, made with, 1,214,919; 1,221,667
—, galena, flotation of, using, 1,497,310
—, —, pyrite, separation of from, using, 1,182,890
—, —, sphalerite, separation of from, using, 1,182,890
—, germicide made with, 1,493,564
—, glucose made with, 1,139,620
—, glue, vegetable, made with, 1,311,965; 1,357,310
—, glutamic acid made with, 1,255,390
—, glycol made with, 1,213,367; 1,237,076 1,270,759
—, glycol, nitrated, made with, 1,213,367
—, gold production of using, 1,144,402; 1,146,373; 1,185,005
—, grass bleached with, 1,251,614
—, halloysite contg., extraction from of, 1,308,429
—, heater, electric, made with, 1,507,379
—, heat producing compound contg., 1,126,055
—, 2.4.6.2′-4′.6′-hexanitro-diphenyl sulfide made with, 1,135,792
—, hexyl alcohols made with, 1,214,919
—, hop beverages made with, 1,149,704
—, horn substitute made with, 1,379,351
—, hydrocarbons dehydrated with, 1,466,435; Re-15,783
—, hydrochloric acid insoluble material rendered soluble using, 1,471,751
—, hydrocyanic acid made with, 1,492,871
—, hydrogen, catalyst for the mfr. of, made with, 1,330,772
—, hydrogenation process using, 1,472,882
—, ink, lithographic, made with, 1,131,578
—, insecticide made with, 1,137,844; 1,185,603
—, insulation, electric, made with, 1,131,578; 1,245,876; 1,245,980; 1,245,981; 1,245,984; 1,397,144; 1,500,844
—, —, heat, made with, 1,509,035
—, iodine compounds made with, 1,509,035
—, iron, production of using, 1,144,402; 1,146,373
—, iron(ic) arsenate made with, 1,146,373
—, iron(ic) arsenite made with, 1,146,373
—, iron hydroxide pigments from, 1,420,985
—, iron molybdate made with, 1,278,408
—, iron(ic) oxide made with, 1,146,373
—, iron(ic) oxide, treatment of with, 1,471,751
—, iron oxide (Fe_3O_4), treatment of with, 1,471,751
—, iron oxide pigment made with, 1,490,372; 1,496,605
—, iron rust-proofing of with, 1,317,351
—, iron smelting operation employing, 1,415,183
—, ivory substitute made with, 1,245,976; 1,379,351

Alkali carbonate, ketones hydrated with, 1,466,435; Re-15,783
—, lacquer made with, 1,245,818; 1,245,981; 1,245,982; 1,275,324; 1,427,645
—, laterite contg., extraction from of, 1,308,429
—, lead production of using, 1,144,402; 1,146,373
—, lead, white, made with, 1,163,052
—, lead compound made with, 1,228,119
—, lead sulfide, zinc sulfide separated from using, 1,469,042; 1,486,297
—, lead sulfide ore, zinc sulfide ore, separation of from, using, 1,182,890
—, —, pyrite, separation of from, using, 1,182,890
—, leather, artificial, made with, 1,245,818; 1,245,977; 1,275,324; 1,427,645
—, leather-board, water-proof, made with, 1,142,953
—, leaves bleached with, 1,251,614
—, legume, proteid extracted from with, 1,321,479; 1,321,480
—, linen, bleaching of, using, 1,163,438
—, linoleum substitute made with, 1,245,978; 1,245,984; 1,427,645
—, linseed oil substitute made with, 1,257,562; 1,500,844
—, liquids, organic dehydrated with, 1,466,435; Re-15,783
—, lithium acetyl-salicylate made with, 1,217,862
—, lupuline, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, magnesium acetyl-salicylate made with, 1,217,862
—, magnesium carbonate made with, 1,512,924
—, magnesium carbonate, calcium carbonate, separation from of using, 1,512,924
—, manganese made with, 1,146,373
—, manganese dioxide made with, 1,188,705
—, manganese dioxide, produced electrolytically from solutions contg., 1,352,208
—, —, treatment of with, 1,471,751
—, manganese oxide (Mn_2O_3), treatment of with, 1,471,751
—, mfr. of albite for, 1,514,657
—, —, alkali aluminate for, 1,514,657
—, —, alkali cyanide for, 1,174,667; 1,174,668
—, —, alkali earth oxide for, 1,514,657
—, —, alkali hydroxide for, 1,295,049
—, —, alkali metal for, 1,505,281
—, —, alkali oxide for 1,129,510
—, —, alkali sulfide for, 1,138,190
—, —, ammonium carbonate for, 1,193,795
—, —, apparatus for 1,129,510; 1,505,281
—, —, barium cyanide for, 1,501,840
—, —, bauxite for, 1,514,657
—, —, calcium carbonate for, 1,514,657
—, —, calcium chloride for, 1,514,657
—, —, calcium oxide for, 1,357,783; 1,514,657
—, —, carbon dioxide for, 1,138,190; 1,160,171; 1,160,172; 1,295,049
—, —, cement rock for, 1,160,171; 1,160,172
—, —, clay for, 1,160,171; 1,160,172; 1,514,657
—, —, feldspar for 1,160,171; 1,160,172; 1,514,657
—, —, granite for, 1,160,171; 1,160,172
Alkali carbonate, mfr. of, gypsum for, 1,160,171; 1,160,172
—, —, hydrogen for, 1,505,281
—, —, iron, cast, for, 1,505,281
—, —, leucite for, 1,514,657
—, —, lime for, 1,514,657
—, —, limestone for, 1,160,171; 1,160,172
—, —, magnesia for, 1,514,657
—, —, magnesium carbonate for, 1,514,657
—, —, magnesium oxide for, 1,514,657
—, —, marl for, 1,160,171; 1,160,172
—, —, mica for, 1,160,171; 1,160,172
—, —, nitrogen for, 1,129,510; 1,505,281
—, —, orthoclase for, 1,514,657
—, —, potassium carbonate for, 1,514,657
—, —, potassium hydroxide for, 1,514,657
—, —, process for, 1,129,510; 1,160,171; 1,160,172; 1,193,795; 1,379,351; 1,439,909; 1,505,281; 1,514,657
—, —, producer gas for, 1,129,510; 1,505,281
—, —, shale for, 1,160,171; 1,160,172
—, —, silicates for, 1,357,873
—, —, slate for, 1,160,171; 1,160,172
—, —, sodium for, 1,505,281
—, —, sodium carbonate for, 1,514,657
—, —, sodium chloride for, 1,514,657
—, —, sodium hydroxide for, 1,514,657
—, —, steam for, 1,514,657
—, —, water for, 1,138,190
—, —, zeolite for, 1,514,657
—, —, zeolite, artificial for, 1,193,795
—, mfr. of cement and, 1,338,021; 1,357,873
—, mercury made with, 1,146,373
—, metal made with, 1,146,373
—, metal, treatment of with, 1,471,751
—, methyl alcohol made with, 1,253,055
—, methylamine made with, 1,489,380
—, methyl ethyl ketone dehydrated with, 1,466,435
—, mineral, treatment of with, 1,471,751
—, molded article made with, 1,397,144; 1,427,645
—, molybdenum extracted with, 1,399,554
—, nitric acid insoluble material rendered soluble using, 1,471,751
—, nickel, production of using, 1,146,373
—, nickel silicates, treatment of with, 1,471,751
—, *p*-nitroaniline mfr. with, 1,400,555
—, nitrocellulose, screens in mfr. of, cleaned with, 1,367,111
—, nitrogen, carbon dioxide, separation of from using, 1,287,472
—, —, fixation of using, 1,236,853; 1,401,678
—, nitrogen fixation process using, 1,206,155
—, nitrogen oxides absorbed by, 1,458,969
—, oil, animal, hydrogenated with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, —, mineral, hydrogenated with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, —, vegetable, hydrogenated with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, ore, aluminum contg., extraction of, 1,308,429
—, —, copper, flotation of with, 1,312,668
—, —, —, sulfidation of with, 1,312,668
—, —, flotation of with, 1,312,668
—, —, flotation process using, 1,301,551
—, —, sulfidation of with, 1,312,668

Alkali carbonate, ore, treatment of with, 1,471,751
—, oxygen made with, 1,124,304
—, paint made with, 1,131,578; 1,216,980; 1,216,981
—, paper made with, 1,151,490; 1,457,915
—, paper pulp made with, 1,151,490
—, paraformaldehyde, solvent for, contg., 1,170,624
—, petroleum, non-sludging, made with, 1,472,882
—, phenol aldehyde condensate made with, 1,146,300; 1,187,232; 1,252,507; 1,500,844
—, phenol aldehyde condensate substitute made with, 1,245,976
—, phenolphthalein compounds of, 1,357,482
—, phosphates made with, 1,270,515
—, phosphoric acid made with, 1,270,515
—, photochemical processes, protection from, compound suitable for, contg., 1,511,874
—, photographic developer made with, 1,158,011; 1,207,042
—, photographic emulsion, protection from, compound suitable for, contg., 1,511,874
—, pigment made with, 1,216,980; 1,216,981; 1,420,985
—, pigment, iron oxide as, made with, 1,490,372
—, plastic made with, 1,245,981; 1,245,984; 1,397,144; 1,507,379
—, porcelain made with, 1,507,379
—, potassium acetyl-salicylate made with, 1,217,862
—, potassium aluminate made with, 1,191,105
—, potassium carbonate made with, 1,215,517; 1,215,518
—, potassium compound made with, 1,215,517; 1,215,518; 1,495,498
—, potassium phosphate made with, 1,270,515
—, potassium salts made with, 1,509,035
—, potassium silicates, treatment of with, 1,471,751
—, potassium sulfate made with, 1,270,515
—, precipitation of, alcohol-water for, 1,295,049
—, —, acetone-water for, 1,295,049
—, 1.2-propanediol made with, 1,213,367
—, 1.2-propanediol, nitrated, made with, 1,213,367
—, propylene glycol made with, 1,270,759
—, propyl ether dehydrated with, 1,466,435; Re-15,783
—, proteid made with, 1,275,324
—, proteid, vegetable, made with, 1,275,308
—, proteids extracted with, 1,427,645
—, proteid product made with, 1,245,818; 1,245,976; 1,245,981
—, pyrite, galena, separation from of, using, 1,182,890
—, —, lead sulfide ore, separation from of, using, 1,182,890
—, —, zinc sulfide separated from using, 1,469,042
—, pyrotechnic made with, 1,500,844
—, radium made with, 1,165,692; 1,165,693; 1,438,357
—, radium ores treated with, 1,399,246
—, record, disk, made with, 1,315,137
Alkali carbonate, resin, artificial, made with, 1,397,144; 1,500,844
—, resistance, electric, made with, 1,507,379
—, rubber, artificial, made with, 1,275,324
—, —, hard, substitute, made with, 1,315,137
—, —, imitation, made with, 1,245,818
—, —, synthetic, made with, 1,248,888
—, rubber purified with, 1,418,271
—, rubber substitute made with, 1,245,976; 1,245,979; 1,245,984; 1,427,645
—, rhyolite ash contg., extraction from of, 1,308,429
—, rhyolite mud contg., extraction from of, 1,308,429
—, shellac substitute made with, 1,315,137; 1,500,844
—, silicic acid made with, 1,324,318
—, silicon dioxide made with, 1,415,280
—, silicon nitride made with, 1,415,280
—, silk, artificial, cuprammonium, precipitation of, with alkali hydroxide and, 1,317,306
—, —, —, fabric, treatment of using, 1,515,691
—, silk thread made with, 1,202,534
—, silver, production of using, 1,144,402; 1,146,373; 1,185,005
—, silver acetyl-salicylate made with, 1,217,862
—, silver chloride made with, 1,185,005
—, silver sulfate made with, 1,185,005
—, size made with, 1,373,412
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, soap made with, 1,196,274
—, sodium acetyl-salicylate made with, 1,217,862
—, sodium cyanide made with, 1,322,195; 1,492,871
—, sodium cyanide contg., impurity of, 1,312,116
—, sodium meta-arsenate made with, 1,185,005
—, sodium meta-arsenite made with, 1,185,005
—, sodium perborate made with, 1,281,983
—, sodium phosphate made with, 1,270,515
—, sodium selenite made with, 1,185,005
—, sodium sulfite made with, 1,266,595
—, sodium uranate made with, 1,165,692; 1,165,693
—, sodium vanadate made with, 1,513,200
—, soya bean, proteid extracted from with, 1,321,479; 1,321,480
—, sphalerite, flotation of, using, 1,497,310
—, —, galena, separation from of, using, 1,182,890
—, stalks bleached with, 1,251,614
—, starch made with, 1,156,801; 1,224,951
—, steel production of using, 1,320,483
—, steel rust-proofing of with, 1,317,351
—, straw bleached with, 1,251,614
—, strontium acetyl-salicylate made with, 1,217,862
—, sulfide, soluble, made with, 1,310,151
—, sulfide ore, treatment of with, 1,471,751
—, sulfite made with, 1,130,192
—, sulfuric acid insoluble material rendered soluble using, 1,471,751
—, tanning compound made with, 1,327,105; 1,437,726; 1,443,697; 1,500,844
—, tanning using, 1,236,468
—, tellurium sulfate, basic, made with, 1,185,005

Alkali carbonate, testilupine, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, testin acid, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, 3.5.3′.5′-tetramino-2.2′-dibrom-4.4′-di(methyl amino)-arseno-benzene, action of, 1,265,865
—, 3.5.3′.5′-tetramino-2.2′-dichlor-4.4′-di(methyl-amino)-arseno-benzene, action on of, 1,265,865
—, 3.5.3′.5′-tetramino-2.2′-6.6′-tetrachlor-4-4′-di (methylamino)-arsenobenzene, action on of, 1,265,865
—, 3.5.3′.5′-tetramino-2.4.2′.4′-tetra(methyl-amino)arsenobenzene, action on of, 1,265,865
—, Texas fever tick, animal dip for, made with, 1,137,844
—, textile, artificial, cellulose acetate, hollow, made with, 1,487,807
—, —, —, cellulose nitrate, hollow, made with, 1,487,807
—, —, —, cuprammonium cellulose, hollow, made with, 1,487,807
—, —, —, gelatin, hollow, made with, 1,487,807
—, —, —, hollow, made with, 1,487,807
—, —, —, viscose, hollow made with, 1,487,807
—, thio-protein compounds made with, 1,145,634
—, therapeutic product, protection from, compound suitable for, contg., 1,511,874
—, tile made with, 1,245,984
—, tin made with, 1,146,373
—, tin dioxide, treatment of with, 1,471,751
—, tortoise shell substitute made with, 1,379,351
—, trioxymethylene, solvent for, contg., 1,170,624
—, ultra-violet filter, protection from, compound suitable for, contg., 1,511,874
—, ultra-violet light, protection from, compound suitable for, contg., 1,511,874
—, uranium made with, 1,165,692; 1,165,693; 1,438,357
—, uranium ore treated with, 1,399,246
—, vanadium made with, 1,165,692; 1,165,693; 1,438,357; 1,513,200
—, vanadium ore treated with, 1,399,246
—, varnish made with, 1,131,578; 1,245,818; 1,257,562; 1,275,324; 1,280,861; 1,427,645
—, varnish, fat soluble, made with, 1,500,844
—, —, oil soluble, made with, 1,500,844
—, varnish substitute made with, 1,315,137
—, walls, facing for, made with, 1,505,302
—, water purified using, 1,513,566
—, waterproofing made with, 1,373,412
—, water softener contg., 1,162,024; 1,400,332
—, wolframite, flotation of, using, 1,497,310
—, wood, artificial, made with, 1,397,144
—, X-ray screen, protection from, compound suitable for, contg., 1,511,874
—, yeast made with, 1,475,494
—, yeast, lupuline, removal of from, using, 1,517,650
—, —, pressed, made with, 1,176,528
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
Alkali carbonate, zeolite, artificial, made with, 1,131,503; 1,202,556; 1,202,557
—, zinc production of using, 1,144,402; 1,146,373; 1,154,601; 1,154,602
—, zinc acetyl-salicylate made with, 1,217,862
—, zinc carbonate, basic, made with, 1,135,981
—, zinc compound made with, 1,228,119
—, zinc hydroxide made with, 1,135,981
—, zinc oxide made with, 1,135,981
—, zinc silicates, treatment of with, 1,471,751
—, zinc sulfide, bornite separated from using, 1,469,042
—, —, chalcopyrite separated from using, 1,469,042
—, —, lead sulfide separated from using, 1,469,042; 1,486,297
—, —, pyrite separated from using, 1,469,042
—, zinc sulfide ore, lead sulfide ore, separation from of using, 1,182,890
—, zirconium carbonate, basic, made with, 1,216,980; 1,216,981
—, zirconium oxide made with, 1,216,980; 1,216,981
—, zirconium oxide extracted with, 1,340,888
—, zirconium sulfate made with, 1,216,980; 1,216,981
Alkali carbonitride, ammonia made with, 1,134,411
—, mfr. of, alkali oxide for, 1,134,411
—, —, apparatus for, 1,129,510
—, —, carbon for, 1,129,510; 1,134,411
—, —, nitrogen for, 1,129,510; 1,134,411
—, —, process for, 1,129,510; 1,134,411
—, —, producer gas for, 1,129,510; 1,134,411
—, —, sodium oxide for, 1,129,510
Alkali caseinate, casein article made with, 1,159,879
—, casein article, colored, made with, 1,169,878
—, molded article made with, 1,159,879
Alkali cellulose, benzyl cellulose made with, 1,483,738
—, cellulose ether made with, 1,188,376; 1,464,153; 1,467,107; 1,469,824; 1,483,738; 1,502,379; 1,507,210
—, cellulose xanthate made with, 1,251,237; 1,279,200; 1,279,328; 1,279,329
—, drying, 1,467,107
—, ethyl cellulose made with, 1,188,376; 1,464,153; 1,469,824; 1,483,738
—, filament, artificial, made with, 1,379,351
—, —, —, viscose, made with, 1,251,237
—, film made with, 1,379,351
—, Georgia prime oil, refining of using, 1,130,698
—, leather, artificial, viscose, made with, 1,251,237
—, mfr. of, apparatus for, 1,469,824
—, —, cellulose for, 1,279,200; 1,279,328; 1,279,329; 1,467,107; 1,469,824
—, —, cerium hydroxide for, 1,279,200
—, —, cerium oxide for, 1,279,200
—, —, cobalt hydroxide for, 1,279,200
—, —, cobalt oxide for, 1,279,200
—, —, cotton for, 1,469,824
—, —, dioxide for, 1,279,328; 1,279,329
—, —, hydrogen dioxide for, 1,279,328; 1,279,329
—, —, hypochlorite for, 1,279,328

Alkali cellulose, mfr. of, iron hydroxide for, 1,279,200
—, —, iron(ous) sulfate for, 1,279,200
—, —, iron oxide for, 1,279,200
—, —, nickel hydroxide for, 1,279,200
—, —, nickel oxide for, 1,279,200
—, —, nickel sulfate for, 1,279,200
—, —, oxygen for, 1,279,328; 1,279,329
—, —, potassium permanganate for, 1,279,328
—, —, process for, 1,279,200; 1,279,328; 1,279,329; 1,467,107; 1,469,824
—, —, sodium dioxide for, 1,279,200; 1,279,328; 1,279,329
—, —, sodium hydroxide for, 1,279,200; 1,279,328; 1,279,329; 1,467,107; 1,469,824
—, —, vanadium hydroxide for, 1,279,200
—, —, vanadium oxide for, 1,279,200
—, —, wood cellulose for, 1,469,824
—, —, wood pulp for, 1,279,200; 1,279,328; 1,279,329; 1,467,107
—, methyl cellulose made with, 1,188,376; 1,483,738
—, oil, animal, refining of using, 1,130,698
—, —, vegetable, refining of using, 1,130,698
—, silk, artificial, made with, 1,379,351
—, —, —, viscose, made with, 1,398,525; 1,425,654; 1,502,101
—, sizing solution contg., 1,464,310
—, viscose made with, 1,251,237; 1,425,654; 1,470,711; 1,502,101
—, *see also Cellulose; Soda cellulose*
Alkali chlorate, alkali cyanate made with, 1,472,403
—, alkali cyanide made with, 1,472,403
—, aniline black made with, 1,277,056; Re-14,824; 1,350,600
—, carbon, decolorizing, revivifying of, using, 1,189,896
—, dyestuff made with, 1,277,056; Re-14,824; 1,350,600
—, explosive contg., 1,309,014; 1,310,466; 1,335,790
—, lamp, incandescent, made with, 1,166,464
—, mfr. of, apparatus for, 1,143,586; 1,173,346
—, —, carbon anode for, 1,143,586
—, —, electrolytic process for, 1,173,346
—, —, graphite anode for, 1,143,586
—, —, iron cathode for, 1,143,586
—, —, mercury for, 1,173,346
—, —, platinum anode for, 1,143,586
—, —, process for, 1,143,586; 1,173.346
—, metallic solution treated with, 1,437,191
—, petracin made with, 1,308,060
Alkali chlorchromate, paint made with, 1,145,186
—, paint, anti-fouling, made with, 1,145,186
—, rust-proofing made with, 1,145,186
Alkali chloride, adhesive made with, 1,273,571
—, alkali acetyl-salicylate made with, 1,217,862
—, alkali aluminum fluoride made with, 1,517,686
—, alkali aluminum silicate made with, 1,123,693
—, alkali amalgam made with, 1,190,845
—, alkali amide made with, 1,163,498
—, alkali chloride made with, 1,493,996
—, alkali cyanamide made with, 1,163,498
—, alkali cyanide made with, 1,163,498; 1,277,898; 1,277,900; 1,282,395; 1,282,405; 1,481,373; 1,481,374
Alkali chloride, alkali earth chloride separation of from, 1,469,507
—, alkali hydroxide made with 1,150,370; 1,176,551; 1,160,847; 1,264,536
—, alkali metal made with, 1,124,143; 1,186,936; 1,186,937; 1,319,148
—, alkali nitrates made with, 1,460,898; 1,493,996
—, aluminum sodium fluoride made with, 1,517,686
—, ammonium chloride from coal by, 1,397,264
—, amylene chlorhydrin made with, 1,264,535; 1,264,536
—, antiseptic contg., 1,336,272
—, butylene chlorhydrin made with, 1,264,535; 1,264,536
—, cadmium made with, 1,247,413
—, cadmium chloride made with, 1,247,413
—, calcium chloride separation of from, 1,469,507
—, calcium oxide made with, 1,468,741
—, case hardening with, 1,279,457; 1,279,458
—, catalyst, urea made with, 1,274,503; 1,292,019
—, chlorhydrin made with, 1,264,535; 1,264,536
—, chloride made with, 1,160,847
—, chlorine made with, 1,126,627; 1,150,370; 1,176,551; 1,190,845; 1,284,618
—, cobalt made with, 1,247,413
—, cobalt chloride made with, 1,247,413
—, copper, copper ore, extraction from of, using, 1,195,616; 1,195,617
—, —, production of using, 1,230,078; 1,247,413; 1,483,999
—, copper chloride made with, 1,247,413
—, copper compound, sand, removal of from, using, 1,173,385
—, copper ore, copper, extraction of from, using, 1,195,616; 1,195,617
—, coumarone resins washed with, 1,413,558
—, dentifrice contg.. 1,471,987
—, diatomaceous earth product made with, 1,502,547
—, dyestuff, indantherene, leuco derivatives of, made using, 1,247,927
—, —, indigo, leuco derivatives of, made using, 1,247,927
—, —, leuco derivatives of, made using, 1,247,927
—, —, vat, leuco derivatives of, made using, 1,247,927
—, electrolysis of, apparatus for, 1,126,627; 1,138,400; 1,259,683; 1,337,724; 1,378,829
—, —, diaphragm for, 1,378,829
—, —, hydrochloric acid for, 1,259,683
—, —, salt added to anode compartment during, 1,259,683
—, electrolysis of aqueous solutions of, 1,354,498
—, ethylene chlorhydrin made with, 1,264,535; 1,264,536
—, ethylene chloride made with, 1,264,535; 1,264,536
—, fertilizer made with, 1,162,944; 1,174,176; 1,493,996
—, filter aid made with, 1,502,547
—, flotation process using, 1,203,374
—, galena, flotation of, using, 1,203,374

Alkali chloride, galena, sphalerite, separation from of, using, 1,203,374
—, —, zinc sulfide ore, separation from of, using, 1,203,374
—, glue, vegetable, made with, 1,273,571
—, gold ore, treatment of using, 1,458,016; Re-15,931
—, hexylene chlorhydrin made with, 1,264,535; 1,264,536
—, hydrochloric acid made with, 1,123,693; 1,124,143; 1,264,535; 1,264,536; 1,468,741
—, hydrocyanic acid made with, 1,493,996
—, hydrogen made with, 1,124,143
—, indigo, leuco derivatives of, made using, 1,247,927
—, insulation made with, 1,502,547
—, iron compound, sand, removal from of, using, 1,173,385
—, iron sulfide ore, treatment of using, 1,458,016; Re-15,931
—, lamp, incandescent, made with, 1,166,464
—, lead, production of, using, 1,264,586; 1,480,439; 1,483,999
—, lead carbonate ore, treatment of using, 1,458,016; Re-15,931
—, lead chloride made with, 1,264,586
—, lead sulfide ore, flotation of, using, 1,203,374
—, —, sphalerite, separation from of, using, 1,203,374
—, —, treatment of using, 1,458,016; Re-15,931
—, —, zinc sulfide ore, separation from of, using, 1,203,374
—, magnesium made using, 1,519,128
—, magnesium, flux for, contg., 1,519,128
—, magnesium alloy, flux for, contg., 1,519,128
—, mfr. of, alkali chloride for, 1,493,996
—, —, alkali earth oxide for, 1,518,375
—, —, alkali oxide for, 1,518,375
—, —, alkali sulfate for, 1,493,996
—, —, apparatus for, 1,518,375
—, —, calcium chloride for, 1,202,327
—, —, calcium cyanamide for, 1,493,996
—, —, carbon for, 1,518,375
—, —, carbon dioxide for, 1,518,375
—, —, carbon monoxide for, 1,518,375
—, —, cement kiln gas for, 1,202,327
—, —, coke for, 1,518,375
—, —, dolomite for, 1,518,375
—, —, hydrochloric acid for, 1,202,327
—, —, limestone for, 1,518,375
—, —, magnesia for, 1,518,375
—, —, metal chloride for, 1,518,375
—, —, nitric acid for, 1,493,996
—, —, process for, 1,202,327; 1,493,996; 1,518,375
—, —, water for, 1,202,327
—, metal chloride made with, 1,518,376
—, molybdenum made with, 1,124,143
—, mucin, solvent for, contg., 1,471,987
—, nasal douche contg., 1,471,987
—, nasal tissue, mucin on, solvent for, contg., 1,471,987
—, nickel, coating with using, 1,207,218
—, —, production of using, 1,247,413
—, nickel chloride made with, 1,247,413
—, olefin chlorhydrin made with, 1,264,535; 1,264,536
Alkali chloride, olefin chloride made with, 1,264,535; 1,264,536
—, ore, treatment of using, 1,458,016; Re-15,931
—, paint made with, 1,502,547
—, paracoumarone made with, 1,413,558
—, paraindene made with, 1,413,558
—, phosphoric acid made with, 1,468,741
—, phosphorus oxychloride made with, 1,468,741
—, potassium chlorate made with, 1,247,619
—, potassium chloride made with, 1,247,619; 1,296,461
—, potassium compound made with, 1,247,619
—, potassium hydroxide made with, 1,247,619
—, propylene chlorhydrin made with, 1,264,535; 1,264,536
—, sand, color removed from, using, 1,173,385
—, —, copper, removal of from, using, 1,173,385
—, —, iron, removal of from, using, 1,173,385
—, silk, artificial, cuprammonium, precipitation of, with alkali hydroxide and, 1,317,306
—, —, —, viscose, precipitation of, using, 1,393,197
—, silver, production of using, 1,480,439
—, silver ore, treatment of using, 1,458,016; Re-15,931
—, soap made with, 1,502,547
—, sodium made with, 1,468,741
—, sodium aluminum silicate made with, 1,123,693
—, sodium oxide made with, 1,468,741
—, solution of, magnesium carbonate, basic, removed from, 1,308,509
—, —, purification of, carbon dioxide for, 1,308,509
—, —, —, sodium bicarbonate for, 1,308,509
—, —, —, sodium carbonate for, 1,308,509
—, —, —, sodium hydroxide for, 1,308,509
—, sphalerite, galena, separation from of, using, 1,203,374
—, —, lead sulfide ore, separation from of, using, 1,203,374
—, tartaric acid made with, 1,190,845
—, tartrate made with, 1,190,845
—, thioindigo, leuco derivatives of, made using, 1,247,927
—, tungsten made with, 1,124,143
—, urethral membrane, mucin on, solvent for, contg., 1,471,987
—, vaginal membrane, mucin on, solvent for, contg., 1,471,987
—, viscose, precipitation of using, 1,143,569
—, zeolite, artificial, made with, 1,499,492
—, zinc made with, 1,247,413; 1,483,999
—, zinc chloride made with, 1,247,413
—, zinc sulfide ore, galena, separation from of, using, 1,203,374
—, —, lead sulfide ore, separation from of, using, 1,203,374
—, —, treatment of using, 1,458,016; Re-15,931
—, zirconium oxide extracted with, 1,340,888
Alkali chlorsulfonate, dibutyl sulfate made with, 1,506,228
—, diethyl sulfate made with, 1,506,228
—, dimethyl sulfate made with, 1,506,228
—, dipropyl sulfate made with, 1,506,228
Alkali chromate, alkali dichromate made with, 1,326,123

Alkali chromate, alkali perborate made with, 1,253,061
—, ammonium chromate made with, 1,326,123
—, boiler compound made with, 1,181,562
—, carbon for, 1,492,636
—, chromite for, 1,492,636
—, chromium compound made with, 1,162,210
—, chromium steel from, 1,300,279
—, dyestuffs made with, 1,228,089; 1,408,297; 1,426,189
—, ferro-chromium anode for, 1,492,636
—, iron, rust-proofing of using, 1,287,605
—, lamp, incandescent, made with, 1,166,464
—, lead cathode for, 1,492,636
—, lead chromate, basic, made with, 1,181,172
—, mfr. of, alkali carbonate for, 1,492,636
—, —, process for, 1,492,636
—, metallic solution treated with, 1,437,191
—, mordant, chromium compound as, made with, 1,162,210
—, pitch for, 1,492,636
—, sodium perborate made with, 1,253,061
Alkali chromite, dyestuff made with, 1,221,849; 1,394,823
—, zeolite, artificial, made with, 1,193,794; 1,193,795
Alkali citrate, blue print paper made with, 1,500,433
—, catalyst, urea mfr. by, 1,292,019
—, cream, fat, determination of in, using, 1,329,183
—, fat, milk, determination in of, using, 1,329,183
—, film, photographic, made with, 1,493,000
—, fire-extinguisher contg., 1,278,716
—, milk, fat, determination of in, using, 1,329,183
—, photographic print developed with, 1,414,309
Alkali compound, abrasive made with, 1,263,709; 1,263,710
—, alkali cyanide made with, 1,124,143; 1,138,190; 1,138,191; 1,312,842; 1,322,195; 1,324,119
—, analgesic made with, 1,483,217
—, alkali cyanide made with, 1,496,467; 1,506,269
—, *b*-alumina made with, 1,263,607; 1,263,708; 1,263,709
—, alumina fusion of in presence of, 1,269,141
—, aluminum ore, removal from of, process for, 1,251,057
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, aluminum oxide, crystalline, made with, 1,269,141
—, —, fusion of in presence of, 1,269,141
—, aluminum silicates, removal from of, process for, 1,251,057
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, amines, aromatic, catalyst for the mfr. of, made with, 1,207,802
—, ammonia made with, 1,138,191
—, aniline, catalyst for the mfr. of, made with, 1,207,802
—, bacterial compost contg., 1,320,701
—, catalyst for the mfr. of amines, aromatic, made with, 1,207,802
Alkali compound, catalyst for the mfr. of aniline made with, 1,207,802
—, catalyst for the mfr. of *o*-toluidine made with, 1,207,802
—, cement, Portland, hydrated, made with, 1,325,213
—, clay, removal from of, process for, 1,251,057
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, cyanide made with, 1,322,195; 1,506,269
—, earth, removal from of, process for, 1,251,057
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, enamel, opaque, made with, 1,128,691; 1,239,112
—, —, white, made with, 1,128,691
—, ferrocyanides made with, 1,506,269
—, fertilizer contg., 1,320,701
—, insulation, electric, made with, 1,438,598
—, iron, sulfur, removal of from, using, 1,485,540
—, mfr. of, alkali aluminate for, 1,263,705
—, —, alkali aluminum silicates for, 1,151,498; 1,151,533
—, —, alkali carbonate for, 1,283,951; 1,285,796; 1,495,498
—, —, alkali earth compound for, 1,151,498; 1,151,533
—, —, alkali earth orthosilicate for, 1,285,796
—, —, alkali earth oxide for, 1,151,498; 1,151,533; 1,233,273; 1,263,705; 1,285,796; 1,495,498
—, —, alkali earth salt for, 1,151,498; 1,151,533
—, —, alkali hydroxide for, 1,283,951; 1,285,796; 1,495,498
—, —, alkali oxide for, 1,233,273; 1,283,951
—, —, alkali silicate for, 1,283,951
—, —, apparatus for, 1,238,600
—, —, calcium carbonate for, 1,256,295
—, —, calcium chloride for, 1,151,498; 1,151,533
—, —, calcium hydroxide for, 1,233,273; 1,256,295
—, —, calcium oxide for, 1,151,498; 1,151,533; 1,233,273
—, —, carbon for, 1,238,600
—, —, carbon "alkali-soda-cellulose," for, 1,492,034
—, —, carbon anode for, 1,238,600
—, —, carbon dioxide for, 1,233,273; 1,283,951
—, —, charcoal for, 1,492,034
—, —, charcoal, nut shell, for, 1,492,034
—, —, coke, bitumen, for, 1,492,034
—, —, —, petroleum, for, 1,492,034
—, —, —, pitch, for, 1,492,034
—, —, —, tar, for, 1,492,034
—, —, dolomite for, 1,151,498; 1,151,533
—, —, feldspar for, 1,151,498; 1,151,533; 1,209,201; 1,233,273; 1,256,295; 1,263,705; 1,283,951; 1,285,796; 1,495,498
—, —, graphite for, 1,238,600
—, —, graphite anode for, 1,238,600
—, —, gypsum for, 1,209,201
—, —, hydrochloric acid for, 1,283,951
—, —, kelp for, 1,238,600
—, —, leucite for, 1,151,498; 1,151,533; 1,233,273; 1,263,705; 1,285,796; 1,495,498
—, —, lime for, 1,151,498; 1,151,533
—, —, lime, cull, for, 1,256,295

Alkali compound, mfr. of, limestone for, 1,151,498; 1,151,533; 1,209,201; 1,495,498
—, —, magnesium chloride for, 1,151,498; 1,151,533
—, —, magnetite anode for, 1,238,600
—, —, marble for, 1,209,201
—, —, mercury cathode for, 1,238,600
—, —, nickel for, 1,238,600
—, —, potassium carbonate for, 1,285,796; 1,495,498
—, —, potassium hydroxide for, 1,233,273
—, —, process for, 1,151,498; 1,151,533; 1,209,201; 1,233,273; 1,238,600; 1,256,295; 1,263,705; 1,279,108; 1,283,951; 1,285,796; 1,357,025; 1,492,034; 1,495,498
—, —, psilomelane for, 1,279,108
—, —, pyrophyllite for, 1,279,108
—, —, serpentine for, 1,279,108
—, —, silicates for, 1,151,498; 1,151,533; 1,233,273; 1,263,705; 1,285,796; 1,495,498
—, —, sodium carbonate for, 1,151,498; 1,151,533
—, —, sulfuric acid for, 1,279,108; 1,283,951
—, —, wad for, 1,279,108
—, —, water for, 1,233,273
—, plant feed contg., 1,320,701
—, pyrolusite treated with, 1,303,911
—, sand, removal from of, process for, 1,251,057
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, sodium cyanide made with, 1,322,195
—, soil inoculator contg., 1,320,701
—, sulfur, iron, removal from of, using, 1,485,540
—, *o*-toluidine, catalyst for the mfr. of, made with, 1,207,802
—, water softener made with, 1,325,213
Alkali copper alginate, cardboard coated with, 1,162,926
—, fabric coated with, 1,162,926
—, leather coated with, 1,162,926
—, mfr. of, alkali alginate for, 1,162,926
—, —, ammonium hydroxide for, 1,162,926
—, —, copper sulfate for, 1,162,926
—, —, process for, 1,162,926
—, paper coated with, 1,162,926
—, pasteboard coated with, 1,162,926
—, textile coated with, 1,162,926
Alkali cresolate, flotation oil made with, 1,506,385
—, oil, pyridine free, made with, 1,506,385
—, *see also Alkali carbolate*
Alkali cresylate, cattle dip made with, 1,498,639
—, sheep dip made with, 1,498,639
Alkali cyanamide, alkali cyanide made with, 1,510,891
—, ammonia from, process for, 1,310,480
—, catalyst, ammonia made with, 1,473,543; 1,483,411
—, —, hydrocyanic acid made with, 1,352,176
—, catalyst contg., ammonia made with, 1,473,543; 1,473,544
—, catalyst for the mfr. of ammonia made with, 1,352,178
—, extraction of, ammonia, liquid, for, 1,314,236; 1,314,237
Alkali cyanamide, mfr. of, acetylene for, 1,163,498; 1,483,411
—, —, alkali carbonate for, 1,174,667; 1,174,668; 1,483,411
—, —, alkali chloride for, 1,163,498
—, —, alkali cyanide for, 1,197,329
—, —, alkali hydroxide for, 1,163,498
—, —, alkali metal for, 1,163,498
—, —, alkali metal, lead alloy contg., for, 1,197,329
—, —, ammonia for, 1,163,498; 1,483,411
—, —, apparatus for, 1,159,154; 1,160,811; 1,174,667; 1,174,668; 1,197,329
—, —, carbon for, 1,163,498; 1,174,667; 1,174,668
—, —, carbon electrode for, 1,163,498
—, —, coal gas for, 1,163,498
—, —, copper cathode for, 1,163,498
—, —, cyanogen for, 1,197,329
—, —, electrolytic process for, 1,159,154
—, —, graphite electrode for, 1,163,498
—, —, hydrocyanic acid for, 1,197,329
—, —, hydrogen for, 1,197,329
—, —, iron for, 1,174,667; 1,174,668
—, —, kieselguhr for, 1,174,867; 1,174,668
—, —, lead for, 1,163,498
—, —, lead alloy for, 1,163,498
—, —, lead alloy, alkali metal in, for, 1,197,329
—, —, magnesia for, 1,174,667; 1,174,668
—, —, mercury for, 1,163,498
—, —, mercury alloy for, 1,163,498
—, —, nickel cathode for, 1,163,498
—, —, nitrogen for, 1,174,667; 1,174,668
—, —, nitrogenous matter for, 1,163,498
—, —, platinum anode for, 1,163,498
—, —, process for, 1,159,154; 1,160,811; 1,163,498; 1,174,667; 1,197,329; 1,473,543; 1,483,411
—, —, tin for, 1,163,498
—, —, tin alloy for, 1,163,498
—, sodium made using, 1,142,220
—, (R_2CN_2), mfr. of, process for, 1,186,367
Alkali, cyanates, mfr. of, 1,406,662
—, —, alkali chlorate for, 1,472,403
—, —, alkali silicate for, 1,264,949
—, —, alum-slate for, 1,264,949
—, —, carbon for, 1,264,949
—, —, feldspar for, 1,264,949
—, —, hydrocarbon for, 1,264,949
—, —, mica for, 1,264,949
—, —, nitrogen for, 1,264,949
—, —, process for, 1,264,949
—, —, silicate for, 1,264,949
—, urea made with, 1,241,919; 1,241,920
Alkali cyanide, alkali cyanamide made with, 1,197,329
—, alkali hydroxide removed from, 1,295,049
—, ammonia made with, 1,138,191; 1,417,702; 1,483,414
—, ammonia made with gases purified with compound made with, 1,483,414
—, case hardening with, 1,279,457; 1,279,458
—, catalyst, aldol made with, 1,220,746
—, —, ammonia made with, 1,473,543; 1,473,544; 1,483,411
—, —, promoter, ammonia made with, 1,476,283
—, catalyst for the mfr. of hydrocyanic acid made with, 1,352,176

Alkali cyanide, extracting from carbonate mixtures, 1,337,019
—, extraction of, ammonia, liquid for, 1,314,236; 1,314,237
—, formaldehyde made with, 1,143,114
—, formation of, 1,413,762
—, gold production of using, 1,234,426; 1,479,542
—, hydrocyanic acid made with, 1,214,206; 1,385,335; 1,385,336; 1,486,592; 1,492,871; 1,519,434
—, indanthrene made with, 1,518,051
—, iron, coloring of, using, 1,439,447
—, —, oxidation of, using, 1,439,447
—, mfr. of, acetone for, 1,322,195
—, —, acetylene for, 1,163,498; 1,483,411
—, —, alcohol for, 1,322,195
—, —, alkali acetate for, 1,138,190; 1,138,191; 1,417,702
—, —, alkali bicarbonate for, 1,138,190; 1,138,191
—, —, alkali carbonate for, 1,138,190; 1,138,191; 1,174,667; 1,174,668; 1,309,903; 1,312,842; 1,322,195; 1,358,383; 1,417,702; 1,472,403; 1,481,373; 1,481,374; 1,483,411; 1,496,467; 1,498,637
—, —, alkali chlorate for, 1,472,403
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—, —, hydrogenation, made with, 1,500,794
—, copper, catalyst, made with, 1,500,794
—, copper carbonate ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper oxide or, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, cotton, bleaching of, using, 1,163,438
—, hydrochloric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, hydrogenation, catalyst for, made with, 1,500,794
—, linen, bleaching of, using, 1,163,438
—, nitric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, ore, copper, flotation of with, 1,312,668
—, —, —, sulfidation of with, 1,312,668
—, —, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, sodium nitrate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sulfate, treatment with of, 1,259,717; 1,259,719; 1,259,719
—, sulfide, soluble, made with, 1,310,151
—, sulfuric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sulfurous acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
Alkali earth borosilicate, bicarbonate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, borax from, 1,259,717; 1,259,718; 1,259,719
—, boric acid from, 1,259,717; 1,259,718; 1,259,719
—, calcium nitrate from, 1,259,717; 1,259,718; 1,259,719
—, calcium nitrate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, calcium oxide from, 1,259,717; 1,259,718; 1,259,719
—, carbonate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, hydrochloric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
Alkali earth borosilicate, nitric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sodium nitrate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sulfate, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sulfuric acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
—, sulfurous acid, treatment with of, 1,259,717; 1,259,718; 1,259,719
Alkali earth bromide, bromine made with, 1,267,638
—, kiln lining made with, 1,156,018
—, nitrosyl bromide made with, 1,267,638
—, refractory made with, 1,156,018
Alkali earth carbide, aldol made with, 1,234,156
—, alkali cyanide made with, 1,472,403
—, alkali earth carbonitride made with, 1,147,184
—, aluminum made with, 1,273,220
—, ammonia made with, 1,517,870
—, ammonium nitrate made with, 1,517,870
—, calcium cyanide made with, 1,359,257
—, catalyst, aldol made with, 1,437,139
—, catalyst for the mfr. of ammonia made with, 1,352,178
—, cyanides made with, 1,359,257
—, nitric acid, made with, 1,517,870
—, nitrogen, fixation of using, 1,175,007
—, sodium cyanide made with, 1,359,257; 1,472,403
Alkali earth carbonate, acetone made with, 1,315,544
—, acetyl-salicylic acid, composition of and, 1,486,002
—, adhesive made with, 1,373,412
—, alcohols made with, 1,253,055
—, alkali earth cyanamide made with, 1,483,411
—, alkali earth cyanide made with, 1,312,842; 1,483,411
—, alkali earth sulfide made with, 1,312,668
—, alkali earth sulfite made with, 1,164,649
—, alloys, treatment of with, 1,471,751
—, aluminum hydroxide made with, 1,254,009
—, aluminum oxide, treatment of with, 1,471,751
—, ammonia made with, 1,483,414
—, ammonia, catalyst for the mfr. of, made with, 1,157,253; 1,483,412
—, ammonia made with gases purified with compound made with, 1,483,414
—, ammonium molybdate made with, 1,250,063
—, ammonium nitrate, concentration of, using, 1,126,471
—, ammonium salt, concentration of, using, 1,126,471
—, antimony made with, 1,144,402; 1,146,373
—, arsenic made with, 1,144,402; 1,146,373
—, barium sulfate, treatment of with, 1,471,751
—, barley-corn glumes, lupuline, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1 517,650
—, binder made with, 1,509,035

Alkali earth carbonate, bismuth made with, 1,144,402; 1,146,373
—, bleaching using, 1,163,438
—, bornite, zinc sulfide separated from using, 1,469,042
—, cadmium made with, 1,144,402; 1,146,373
—, calcium chloride made with, 1,253,055
—, calcium sulfate made with, 1,254,009
—, carbon, decolorizing, made using, 1,250,228
—, carbon dioxide made with, 1,164,649; 1,266,595
—, carvacol made with, 1,265,800
—, case hardening with, 1,279,457; 1,279,458; 1,492,192
—, catalyst, copper as, made with, 1,500,794
—, —, hydrogenation, made with, 1,500,794
—, —, urea made with, 1,274,503; 1,292,019
—, catalyst for the mfr. of ammonia made with, 1,157,253; 1,483,412
—, cellulose made with, 1,509,034
—, cellulose, colloidal, suspension of, made with, 1,509,035
—, cement made with, 1,507,379
—, chalcopyrite, zinc sulfide separated from using, 1,469,042
—, chromite, treatment of with, 1,471,751
—, cinnabar, treatment of with, 1,471,751
—, cobalt made with, 1,146,373
—, copper, catalyst, made with, 1,500,794
—, copper, production of using, 1,144,402; 1,146,373; 1,483,999; 1,518,829
—, copper carbonate ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper oxide ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper silicates, treatment of with, 1,471,751
—, cotton, bleaching of using, 1,163,438
—, cresol-formaldehyde condensates mfr. with, 1,437,726
—, dental cement made with, 1,507,379
—, dextrose made with, 1,139,620
—, difficultly soluble material rendered soluble using, 1,471,751
—, dvestuff made with, 1,460,315
—, ethers made with, 1,459,177
—, ethylene glycol made with, 1,259,757; 1,259,758
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, fatty acid, water, separation of from using, 1,159,355
—, ferrites, treatment of with, 1,471,751
—, ferro-molybdenum made with, 1,278,408
—, fertilizer made with, 1,221,979; 1,229,684; 1,266,198; 1,266,199; 1,267,473
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, flotation process using, 1,469,042; 1,486,297
—, fuel made with, 1,509,035
—, glucose made with, 1,139,620
—, glutamic acid made with, 1,255,390
—, glycol made with, 1,259,757; 1,259,758
—, gold, production of using, 1,144,402; 1,146,373
—, heat producing compound contg., 1,126,055
Alkali earth carbonate, heater, electric, made with, 1,507,379
—, 2.4.6.2′.4′.6′-hexanitro-diphenylsulfide made with, 1,135,792
—, hollow article made with, 1,506,061; 1,506,062
—, hydrochloric acid insoluble material rendered soluble using, 1,471,751
—, hydrogenation, catalyst for, made with, 1,500,794
—, incendiary composition contg., 1,308,463
—, ink, lithographic, made with, 1,131,578
—, insulation, electric, made with, 1,131,578; 1,397,144
—, —, heat, made with, 1,509,035
—, iodine compounds made with, 1,509,035
—, iron made with, 1,144,402; 1,146,373
—, iron alloy made with, 1,185,187
—, iron alloy, nickel in, made with, 1,185,187
—, iron(ic) arsenate made with, 1,146,373
—, iron(ic) arsenite made with, 1,146,373
—, iron(ic) hydroxide made with, 1,254,009
—, iron molybdate made with, 1,278,408
—, iron oxide (Fe_3O_4), treatment of with, 1,471,751
—, iron(ic) oxide made with, 1,146,373
—, iron(ic) oxide, treatment of with, 1,471,751
—, iron oxide pigment, made with, 1,490,372; 1,496,605
—, lead production of using, 1,144,402; 1,146,373; 1,264,586
—, lead sulfide, zinc sulfide separated from using, 1,469,042; 1,486,297
—, linen, bleaching of, using, 1,163,438
—, linseed oils substitute made with, 1,257,562
—, lupuline, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, manganese made with, 1,146,373
—, manganese dioxide made with, 1,188,705
—, manganese dioxide treatment of with, 1,471,751
—, manganese oxide (Mn_2O_3), treatment of with, 1,471,751
—, mercury, production of using, 1,146,373
—, metal made with, 1,146,373
—, metal, treatment of with, 1,471,751
—, methyl alcohol made with, 1,253,055
—, mine water treated with, 1,254,009
—, mineral, treatment of with, 1,471,751
—, molded article made with, 1,397,144; 1,506,061; 1,506,062
—, molybdenum compound made with, 1,250,063
—, nickel made with, 1,146,373
—, nickel, iron alloy contg., made with, 1,185,187
—, nickel silicates, treatment of with, 1,471,751
—, nickel-steel made with, 1,185,187
—, nitric acid insoluble material rendered soluble using, 1,471,751
—, nitric acid made with, 1,200,334
—, nitrogen, fixation of using, 1,175,007
—, oil, fatty, water, separation of from using, 1,159,355
—, —, mineral, water, separation of from using, 1,159,355
—, —, water, separation of from using, 1,159,355

Alkali earth carbonate, olefin glycol made with, 1,259,757; 1,259,758
—, ore, copper, flotation of with, 1,312,668
—, —, —, sulfidation of with, 1,312,668
—, —, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, —, treatment of with, 1,471,751
—, paint made with, 1,131,578
—, paper mfr. with, 1,457,915
—, pigment made with, 1,183,201
—, pigment, iron oxide as, made with, 1,490,372
—, plastic made with, 1,397,144; 1,507,379
—, porcelain made with, 1,507,379
—, potassium chlorate made with, 1,247,619
—, potassium chloride made with, 1,247,619
—, potassium compound made with, 1,247,619
—, potassium hydroxide made with, 1,247,619
—, potassium salts made with, 1,509,035
—, potassium silicates, treatment of with, 1,471,751
—, propylene glycol made with, 1,259,757; 1,259,758
—, pyrite, zinc sulfide separated from using, 1,469,042
—, quebracho tanning compound made with, 1,241,950
—, resin, artificial, made with, 1,397,144
—, resistance, electric, made with, 1,507,379
—, road paving made with, 1,171,236
—, rubber latex, *Hevea Brasiliensis*, coagulation of using, 1,145,351
—, —, Para, coagulation of using, 1,145,351
—, silicon nitrogen compound prepared with, 1,415,280
—, silk thread made with, 1,202,534
—, silver, production of using, 1,144,402; 1,146,373
—, size made with, 1,373,412
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, sodium molybdate made with, 1,250,063
—, sodium sulfite made with, 1,266,595
—, solution, evaporation of, using, 1,126,471
—, sugar juice clarified using, 1,233,919
—, sulfide, soluble, made with, 1,310,151
—, sulfide ore, treatment of with, 1,471,751
—, sulfuric acid insoluble material rendered soluble using, 1,471,751
—, tallow, water, separation of from using, 1,159,355
—, tanning using, 1,236,468
—, tanning compound made with, 1,241,950; 1,437,726; 1,443,697
—, tin made with, 1,146,373
—, tin dioxide, treatment of with, 1,471,751
—, testilupine, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, testin acid, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, varnish made with, 1,131,578; 1,257,562
—, waterproofing made with, 1,373,412
—, water softener contg., 1,162,024
—, wood, artificial, made with, 1,397,144
—, yeast made with, 1,475,494
Alkali earth carbonate, yeast, lupuline, removal of from, using, 1,517,650
—, —, pressed, made with, 1,176,528
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
—, zinc, production of using, 1,144,402; 1,146,373
—, zinc carbonate, basic, made with, 1,135,981
—, zinc hydroxide made with, 1,135,981
—, zinc oxide made with, 1,135,981
—, zinc silicates, treatment of with, 1,471,751
—, zinc sulfide, bornite separated from using, 1,469,042
—, —, chalcopyrite separated from using, 1,469,042
—, —, lead sulfide separated from using, 1,469,042; 1,486,297
—, —, pyrite separated from using, 1,469,042
—, zirconium oxide extracted with, 1,340,888
Alkali earth carbonitride, ammonia made with, 1,134,411
—, mfr. of, alkali earth carbide for, 1,147,184
—, —, alkali earth oxide for, 1,134,411
—, —, carbon for, 1,129,514; 1,134,411
—, —, nitrogen for, 1,129,514; 1,134,411; 1,147,184
—, —, process for, 1,129,514; 1,134,411; 1,147,184
—, —, producer gas for, 1,134,411
Alkali earth chlorate, lamp, incandescent, made with, 1,166,464
—, mfr. of, apparatus for, 1,143,586
—, —, carbon anode for, 1,143,586
—, —, graphite anode for, 1,143,586
—, —, iron cathode for, 1,143,586
—, —, platinum anode for, 1,143,586
—, —, process for, 1,143,586
—, petracin made with, 1,308,060
Alkali earth chloride, alkali chloride, separation from of, 1,469,507
—, alkali earth acetyl-salicylate made with, 1,217,862
—, alkali earth amalgam made with, 1,190,845
—, alkali earth hydroxide made with, 1,160,847
—, ammonium chloride from coal by, 1,397,264
—, battery, dry, made with, 1,506,189
—, bearing metal made with, 1,520,254
—, cadmium made with, 1,247,413
—, cadmium chloride made with, 1,247,413
—, calcium carbide, blocks of, made with, 1,486,618
—, case hardening with, 1,279,457; 1,279,458
—, catalyst, urea made with, 1,274,503; 1,292,019
—, chlorine made with, 1,160,847; 1,190,845
—, cobalt chloride made with, 1,247,413
—, cobalt made with, 1,247,413
—, copper made with, 1,230,078; 1,247,413; 1,483,999
—, copper chloride made with, 1,247,413
—, copper ore, copper, extraction of from, using, 1,195,616; 1,195,617
—, diatomaceous earth product made with, 1,502,547
—, dyestuff, indanthrene, leuco derivatives of, made using, 1,247,927
—, —, indigo, leuco derivatives of, made using, 1,247,927

Alkali earth chloride, dyestuff, leuco derivatives of, made using, 1,247,927
—, —, vat, leuco derivatives of, made using, 1,247,927
—, fertilizer made with, 1,225,825
—, filter aid made with, 1,502,547
—, glauconite heated with lime sand and, 1,292,929
—, gold ore, treatment of using, 1,458,016; Re-15,931
—, indigo, leuco derivatives of, made using, 1,247,927
—, insulation made with, 1,502,547
—, iron(ous) sulfate made with, 1,489,417; Re-15,973
—, iron sulfide ore, treatment of using, 1,458,016; Re-15,931
—, kiln lining made with, 1,156,018
—, lamp, incandescent, made with, 1,166,464
—, lead production of using, 1,264,586; 1,483,999
—, lead alloy made with, 1,520,254
—, lead carbonate ore, treatment of using, 1,458,016; Re-15,931
—, lead chloride made with, 1,264,586
—, lead sulfide ore, treatment of using, 1,458,016; Re-15,931
—, lithium chloride, separation from of, 1,469,507
—, magnesium chloride made with, 1,262,939
—, mfr. of, alkali earth oxide for, 1,518,375
—, —, alkali oxide for, 1,518,375
—, —, apparatus for, 1,518,375
—, —, carbon for, 1,518,375
—, —, carbon dioxide for, 1,518,375
—, —, carbon monoxide for, 1,518,375
—, —, coke for, 1,518,375
—, —, dolomite for, 1,518,375
—, —, limestone for, 1,518,375
—, —, magnesia for, 1,518,375
—, —, metal chloride for, 1,518,375
—, —, process for, 1,262,939; 1,518,375
—, metal chloride made with, 1,518,376
—, metatitanic acid made with, 1,489,417; Re-15,973
—, nickel production of using, 1,247,413
—, nickel chloride made with, 1,247,413
—, ore, treatment of using, 1,458,016; Re-15,931
—, paint made with, 1,502,547
—, paint, cement, made with, 1,510,795
—, paracoumarone made with, 1,413,558
—, paraindene made with, 1,413,558
—, pigment made with, 1,489,417; Re-15,973
—, plastic contg., 1,321,429
—, potassium chloride from, 1,296,461; 1,469,507
—, potassium chloride, separation from of, 1,469,507
—, printing plate made with, 1,519,004
—, refractory made with, 1,156,018
—, separation of potassium chloride from, 1,422,848
—, silk, artificial, viscose, precipitation of, using, 1,393,197
—, silver ore, treatment of using, 1,458,016; Re-15,931
—, soap made with, 1,502,547
—, sodium chloride, separation from of, 1,469,507
Alkali earth chloride, thioindigo, leuco derivatives of, made using, 1,247,927
—, titanium dioxide made with, 1,189,229; 1,489,417; Re-15,973
—, zinc made with, 1,247,413; 1,483,999
—, zinc chloride made with, 1,247,413
—, zinc sulfide ore, treatment of using, 1,458,016; Re-15,931
—, zirconium oxide extracted with, 1,340,888
Alkali earth chromate, alkali perborate made with, 1,253,061
—, chromium steel from, 1,300,279
—, insecticide made with, 1,496,436
—, iron, rust-proofing of using, 1,287,605
—, lamp, incandescent, made with, 1,166,464
—, sodium perborate made with, 1,253,061
Alkali earth chromite, dyestuff made with, 1,221,849
Alkali earth citrate, catalyst, urea mfr. by, 1,292,019
Alkali earth compound, alkali aluminate made with, 1,151,498; 1,151,533
—, alkali compound made using, 1,151,498 1,151,533
—, alkali earth cyanide made with, 1,138,190; 1,312,842
—, ammonia made with, 1,206,155
—, ammonia, catalyst for the mfr. of, made with, 1,206,155
—, analgesic made with, 1,483,217
—, bacterial compost contg., 1,320,701
—, catalyst, hydrogenation made with, 1,238,774
—, catalyst for the mfr. of ammonia made with, 1,206,155
—, cleaner contg., 1,316,090
—, cyanides made with, 1,206,155
—, electrode, welding, made with, 1,363,636
—, enamel, opaque, made with, 1,239,112
—, ferberite reclaimed with, 1,293,402; 1,293,403; 1,293,404
—, fertilizer contg., 1,320,701
—, formates made with, 1,206,155
—, huebnerite reclaimed with, 1,293,402; 1,293,403; 1,293,404
—, hydrogenation, catalyst for, made with, 1,238,774
—, insulation, electric, made with, 1,438,598
—, iron, sulfur, removal of from, using, 1,485,540
—, lubricant made with, 1,200,617
—, mfr. of, carbon "alkali soda cellulose," made with, 1,492,034
—, —, charcoal for, 1,492,034
—, —, charcoal, nut shell, for, 1,492,034
—, —, coke, bitumen, for, 1,492,034
—, —, —, petroleum, for, 1,492,034
—, —, —, pitch, for, 1,492,034
—, —, —, tar, for, 1,492,034
—, —, process for, 1,492,034
—, molybdenum from ore, reclaiming by 1,293,402; 1,293,403; 1,293,404
—, nitrogen fixation process using, 1,206,155
—, oil, mineral, refined using, 1,286,179
—, paint made with, 1,145,186; 1,421,625
—, paint, anti-fouling, made with, 1,145,186
—, petroleum refined using, 1,286,179
—, plant feed contg., 1,320,701

Alkali earth compound, rubber, reclaiming of using, 1,215,941
—, rust-proofing made with, 1,145,186
—, scheelite reclaimed with, 1,293,402; 1,293,403; 1,293,404
—, soil inoculator contg., 1,320,701
—, starch ethers made with, 1,350,820
—, sulfur, iron, removal from of, using, 1,485,540
—, tungsten from ore, reclaiming by, 1,293,402; 1,293,403; 1,293,404
—, uranium from ore, reclaiming by, 1,293,402; 1,293,403; 1,293,404
—, vanadium from ore, reclaiming by, 1,293,402; 1,293,403; 1,293,404
—, water, removal from of, process for, 1,499,492
—, —, —, zeolite, artificial, for, 1,499,492
—, wolframite reclaimed with, 1,293,402; 1,293,403; 1,293,404
—, zeolite, artificial, made with, 1,515,007
—, zinc made with, 1,154,602
Alkali earth cyanamide, catalyst, ammonia made with, 1,473,543; 1,473,544; 1,483,411
—, catalyst for the mfr. of ammonia made with, 1,352,178
—, mfr. of, acetylene for, 1,483,411
—, —, alkali earth carbonate for, 1,483,411
—, —, ammonia for, 1,483,411
—, —, process for, 1,473,543; 1,483,411
—, sodium cyanide made with, 1,277,898; 1,277,899; 1,277,900
Alkali earth cyanate, urea made with, 1,214,919; 1,241,920
Alkali earth cyanide, ammonia made with, 1,483,414
—, ammonia made with gases purified with compound made with, 1,483,414
—, catalyst, aldol made with, 1,200,746; 1,437,139
—, ammonia made with, 1,473,543; 1,473,544; 1,476,283; 1,483,411
—, hydrocyanic acid made with, 1,214,206
—, mfr. of, acetylene for, 1,483,411
—, —, alkali earth carbonate for, 1,312,842; 1,483,411
—, —, alkali earth compound for, 1,138,190; 1,312,842
—, —, alkali earth metal for, 1,138,190; 1,235,887
—, —, ammonia for, 1,483,411
—, —, apparatus for, 1,235,887
—, —, carbon for, 1,138,190; 1,235,887; 1,312,842
—, —, carbon, "alkali-soda-cellulose" for, 1,492,034
—, —, catalyst for, mfr. of carbon monoxide for, 1,485,502
—, —, —, —, charcoal for, 1,485,502
—, —, —, —, coke for, 1,485,502
—, —, —, —, iron for, 1,485,502
—, —, —, —, iron chloride for, 1,485,502
—, —, —, —, iron(ic) chloride for, 1,485,502
—, —, —, —, iron(ous) chloride for, 1,485,502
—, —, —, —, iron ore for, 1,485,502
—, —, —, —, iron sulfate for, 1,485,502
—, —, —, —, process for, 1,485,502
—, —, —, —, steam for, 1,485,502
—, —, —, charcoal for, 1,235,887; 1,312,842; 1,492,034
—, —, charcoal, nut shell, for, 1,492,034
Alkali earth cyanide, mfr. of, coal, bituminous, for, 1,312,842
—, —, cocoanut shell flour for, 1,312,842
—, —, coke for, 1,312,842
—, —, coke, bitumen, for, 1,492,034
—, —, —, petroleum for, 1,492,034
—, —, —, pitch for, 1,492,034
—, —, —, tar, for, 1,492,034
—, —, iron for, 1,138,190; 1,312,842
—, —, iron scale for, 1,312,842
—, —, lignite for, 1,312,842
—, —, molasses for, 1,312,842
—, —, molasses waste for, 1,312,842
—, —, nitrogen for, 1,138,190; 1,235,887; 1,312,842
—, —, peat for, 1,235,887
—, —, process for, 1,138,190; 1,235,887; 1,312,842; 1,314,231; 1,483,411; 1,492,034
—, —, Steffins waste for, 1,312,842
Alkali earth dichromate, iron, rust-proofing of using, 1,287,605
Alkali earth dioxide, beer, sterilization of using, 1,140,717
—, beverage, sterilization of using, 1,140,717
—, chicle substitute made with, 1,288,728
—, cream, sterilization of using, 1,140,717
—, fruit juice, sterilization of using, 1,140,717
—, fruit pulp, sterilization of using, 1,140,717
—, grape juice, sterilization of using, 1,140,717
—, heat producing compound contg., 1,126,055
—, linen, bleaching of using, 1,501,553
—, mfr. of, boric acid for, 1,169,703
—, —, electrolytic process for, 1,169,703
—, —, gelatin for, 1,169,703
—, —, lead anode for, 1,169,703
—, —, oxygen for, 1,169,703
—, —, phosphoric acid for, 1,169,703
—, —, platinum anode for, 1,169,703
—, —, process for, 1,169,703
—, —, silver, amalgamated, cathode, for, 1,169,703
—, —, starch for, 1,169,703
—, milk, sterilization of using, 1,140,717
—, water, aerated, sterilization of using, 1,140,717
—, zein made with, 1,320,508
Alkali earth ferricyanide, catalyst, ammonia made with, 1,473,543
Alkali earth ferrocyanide, catalyst, ammonia made with, 1,473,543
—, mfr. of, carbonate for, 1,259,702
—, —, cyanogen for, 1,259,702
—, —, hydroxide for, 1,259,702
—, —, illuminating gas for, 1,259,702
—, —, iron(ous) chloride for, 1,259,702
—, —, iron(ous) hydroxide for, 1,259,702
—, —, iron(ous) sulfate for, 1,259,702
—, —, process for, 1,259,702
Alkali earth fluoride, cement, Portland, made with, 1,219,315
—, electrode, light, made with, 1,159,511
—, glass, opaque, made with, 1,245,487
—, kiln lining made with, 1,156,018
—, lamp, incandescent, made with, 1,166,464
—, magnesium, electrodeposition of, contg., 1,310,449; 1,310,450
—, —, production of using, 1,310,449; 1,310,450
—, potassium compound made with, 1,219,315

Alkali earth fluoride, potassium fluoride made with, 1,219,315
—, potassium sulfate made with, 1,194,464; 1,219,315
—, refractory made with, 1,156,018
—, sodium fluoride made with, 1,219,315
—, sodium sulfate made with, 1,219,315
Alkali earth formate, ammonia producing catalyst made with, 1,473,543
—, butter substitute made with, 1,216,674
—, casein made with, 1,167,434
—, casein glue made with, 1,167,434
—, catalyst made with, 1,473,543
—, catalyst, urea made with, 1,292,019
—, formic acid made with, 1,185,028
—, mfr. of, alkali earth hydroxide for, 1,185,028
—, —, amalgam for, 1,185,028
—, —, apparatus for, 1,185,028
—, —, carbon dioxide for, 1,185,028
—, —, mercury for, 1,185,028
—, —, platinum anode for, 1,185,028
—, —, potassium amalgam for, 1,185,028
—, —, process for, 1,185,028
Alkali earth glycolate, butter substitute made with, 1,216,675
Alkali earth glyoxylate, *dl*-tartaric acid made with, 1,181,555
—, *meso*-tartaric acid made with, 1,181,555
—, tartrates made with, 1,181,555
Alkali earth halides, calcium cyanide made with, 1,359,257
—, cement, Portland, made with, 1,250,291
—, cyanide made with, 1,359,257
—, diatomaceous earth product made with, 1,502,547
—, filter aid made with, 1,502,547
—, insulation made with, 1,502,547
—, kiln lining made with, 1,156,018
—, koji made with, 1,263,817
—, lamp, incandescent, made with, 1,166,464
—, metals recovered from slag with, 1,414,491
—, paint made with, 1,502,547
—, potassium chloride made with, 1,250,291
—, potassium compounds made with, 1,250,291
—, potassium recovered with, 1,311,043
—, refractory made with, 1,156,018
—, soap made with, 1,502,547
Alkali earth hydrazoate, primer made with, 1,174,669; 1,184,316
Alkali earth hydride, nitrogen, action of on, 1,147,184
Alkali earth hydrosulfide, battery, electric, contg., 1,316,760
Alkali earth hydrosulfite, see Alkali earth hyposulfite
Alkali earth hydroxide, acetic acid made with, 1,178,223
—, adhesive made with, 1,192,783; 1,275,799
—, alcohols made with, 1,253,055
—, alkali earth acetyl-salicylate made with, 1,217,862
—, alkali earth formate for, 1,185,028
—, alkali earth sulfide made with, 1,312,668; 1,502,213
—, alkali hydroxide made with, 1,260,944; 1,351,693
—, alkaloids extracted by, 1,447,400
Alkali earth hydroxide, alloy, treatment of with, 1,471,751
—, alum made with, 1,256,605
—, aluminum oxide made with, 1,256,605
—, aluminum oxide, treatment of with, 1,471,751
—, aluminum sulfate, basic, made with, 1,256,605
—, ammonia, catalyst for the mfr. of, made with, 1,483,412
—, ammonia made with, 1,483,414
—, ammonia made with gases purified with compound made with, 1,483,414
—, ammonium molybdate made with, 1,250,063
—, ammonium nitrate, concentration of, using, 1,126,471
—, ammonium salt, concentration of, using, 1,126,471
—, antimony made using, 1,144,402
—, arsenic made using, 1,144,402
—, arsenic compound made with, 1,512,432
—, asbestos, treatment of with, 1,256,296
—, audion filaments coated with, 1,467,398
—, barium sulfate, treatment of with, 1,471,751
—, barley-corn glumes, lupuline, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
—, battery electrode made with, 1,438,086
—, battery, primary, made with, 1,489,240
—, binder made with, 1,509,035
—, bismuth made with, 1,144,402
—, butyric acid made with, 1,178,223
—, cadmium made using, 1,144,402
—, calcium chloride made with, 1,253,055
—, camphor made with, 1,518,732
—, carbon, decolorizing, revivifying of using, 1,189,896
—, carvacrol made with, 1,265,800
—, casein and, compound of, 1,412,462
—, catalyst, aldol made with, 1,437,139
—, —, ammonia made with, 1,476,283
—, —, 1.3-butadiene made with, 1,436,819
—, —, hydrocarbon, diolefin, made with, 1,436,819
—, catalyst for the mfr. of ammonia, made with, 1,483,412
—, catalyst in diolefin preparation, 1,436,819
—, catalyst in lubricating oil mfr., 1,350,814
—, catalyst in phenol-acetone condensation, 1,397,144
—, cellulose made with, 1,509,034
—, cellulose, colloidal suspension of, made with, 1,509,035
—, cellulose nitrate, screens for, cleaned with, 1,367,111
—, cellulose nitrate composition, screens for, cleaned with, 1,367,111
—, chromite, treatment of with, 1,471,751
—, chrysotile, treatment of with, 1,256,296
—, cinnabar, treatment of with, 1,471,751
—, cod oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, copper made with, 1,144,402; 1,483,999
—, copper carbonate ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668

Alkali earth hydroxide, copper ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper oxide ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper silicates, treatment of with, 1,471,751
—, copper sulfide made with, 1,502,213
—, corn oil, fatty acids, removal of from using, 1,247,516
—, —, hydrogenation of using, 1,247,516
—, cotton seed oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of using, 1,247,516
—, cresol-formaldehyde condensates made with, 1,437,726
—, difficultly soluble material rendered soluble using, 1,471,751
—, dyestuff made with, 1,460,315
—, ethers made with, 1,459,177
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, factory sewage treatment of with, 1,139,778
—, fatty acid made with, 1,178,223
—, fatty acids, cod oil, removal from of, using, 1,247,516
—, —, corn oil, removal from of, using, 1,247,516
—, —, cotton seed oil, removal from of, using, 1,247,516
—, —, fish oil, removal of from, using, 1,247,516
—, —, marine animal oil, removal of from, using, 1,247,516
—, —, menhaden oil, removal from of, using, 1,247,516
—, —, vegetable, removal from of, using, 1,247,516
—, —, whaleoil, removal of from, using, 1,247,516
—, ferrites, treatment of with, 1,471,751
—, ferro-molybdenum made with, 1,278,408
—, fertilizer made with, 1,232,553; 1,289,789
—, fertilizer treatment of with, 1,139,778
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, —, vegetable, bleached with, 1,251,614
—, fish oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of using, 1,247,516
—, flotation process using, 1,486,297
—, formic acid made with, 1,178,223
—, fuel made with, 1,509,035
—, glue made with, 1,192,783
—, glue, vegetable, made with, 1,275,799
—, glutamic acid made with, 1,255,390
—, gold made using, 1,144,402
—, grass bleached with, 1,251,614
—, gum, artificial, made with, 1,225,748; 1,225,749
—, hydrochloric acid insoluble material rendered soluble using, 1,471,751
—, hydrogenation process using, 1,247,516
—, ink, lithographic, made with, 1,131,578
—, insecticide made with, 1,417,232; 1,512,432
—, insulation, electric, made with, 1,131,578; 1,397,144
—, —, heat, made with, 1,509,035
—, iodine compounds made with, 1,509,035
—, iron made with, 1,144,402
—, iron hydroxide pigment from, 1,420,985
Alkali earth hydroxide, iron molybdate made with, 1,278,408
—, iron(ic) ore treatment of with, 1,471,751
—, iron oxide, pigment, made with, 1,490,372
—, iron oxide (Fe_3O_4), treatment of with, 1,471,751
—, iron(ic) sulfate, basic, made with, 1,186,611
—, iron sulfide made with, 1,502,213
—, lead made with, 1,144,402; 1,483,999
—, lead arsenate made with, 1,512,432
—, lead chromate pigment made with, 1,441,612
—, lead sulfide made with, 1,502,213
—, lead sulfide, zinc sulfide, separation from of, using, 1,486,297
—, leaves bleached with, 1,251,614
—, lubricant, used, treatment of with, 1,281,354
—, lupuline, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, manganese dioxide made with, 1,188,705
—, manganese dioxide, treatment of with, 1,471,751
—, manganese oxide (Mn_2O_3), treatment of with, 1,471,751
—, mfr. of, alkali earth chloride for, 1,160,847
—, —, alkali earth oxide for, 1,318,921
—, —, apparatus for, 1,160,847; 1,318,921
—, —, asbestos for, 1,160,847
—, —, barite for, 1,160,847
—, —, barium sulfate for, 1,160,847
—, —, electrolytic process for, 1,160,847
—, —, process for, 1,149,210; 1,149,211; 1,160,847
—, marine animal oil, fatty acids, removal of from using, 1,247,516
—, —, hydrogenation of using, 1,247,516
—, menhaden oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of using, 1,247,516
—, metal, treatment of with, 1,471,751
—, metal sulfide made with, 1,502,213
—, methyl alcohol made with, 1,253,055
—, methylamine made with, 1,489,380
—, mineral, treatment of with, 1,471,751
—, molded article made with, 1,146,299; 1,397,144
—, molybdenum compound made with, 1,250,063
—, nickel silicates, treatment of with, 1,471,751
—, nickel sulfide made with, 1,502,213
—, nitric acid made with, 1,200,334
—, nitric acid insoluble material rendered soluble using, 1,471,751
—, nitrogen oxides absorbed by, 1,458,969
—, oil, lubricating, used, treatment of with, 1,281,354
—, —, vegetable, fatty acids, removal of from, using, 1,247,516
—, —, —, hydrogenation of using, 1,247,516
—, ore, copper, flotation of with, 1,312,668
—, —, —, sulfidation of with, 1,312,668
—, —, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, —, treatment of with, 1,471,751
—, paint made with, 1,131,578
—, paper, brown, made with, 1,196,708
—, —, craft, made with, 1,196,708
—, —, wrapping, made with, 1,196,708
—, paper pulp made with, 1,196,708

Alkali earth hydroxide, Paris green made with, 1,512,432
—, phenols made with, 1,321,271
—, phenol aldehyde condensate made with, 1,146,300; 1,225,748; 1,225,749
—, phenol aldehyde condensate solvent contg., 1,146,299
—, pigment made with, 1,420,985
—, pigment, iron oxide as, made with, 1,490,372
—, plastic made with, 1,146,299; 1,397,144
—, plate, printing, made with, 1,146,299
—, potassium aluminum sulfate made with, 1,256,605
—, potassium chlorate made with, 1,247,619
—, potassium chloride made with, 1,247,619
—, potassium compound made with, 1,247,619
—, potassium hydroxide made with, 1,247,619; 1,260,944
—, potassium salts made with, 1,509,035
—, potassium silicates, treatment of with, 1,471,751
—, propionic acid made with, 1,178,223
—, pyrocatechol made with, 1,321,271
—, quebracho tanning compound made with, 1,241,950
—, record, phonograph, made with, 1,146,299
—, resin, artificial, made with, 1,397,144
—, sewage, treatment of with, 1,139,778
—, silicon nitrogen compound prepared with, 1,415,280
—, silver made using, 1,144,402
—, sizing made with, 1,192,783
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, sodium hydroxide made with, 1,260,944
—, sodium molybdate made with, 1,250,063
—, solution, evaporation of using, 1,126,471
—, stalks bleached with, 1,251,614
—, straw bleached with, 1,251,614
—, sugar juice clarified using, 1,233,919
—, sulfide, soluble, made with, 1,310,151
—, sulfide ore, treatment of with, 1,471,751
—, sulfur dichloride decolorized with, 1,464,137
—, sulfur dichloride neutralized with, 1,464,137
—, sulfur monochloride decolorized with, 1,464,137
—, sulfur monochloride neutralized with, 1,464,137
—, sulfuric acid insoluble material rendered soluble using, 1,471,751
—, tannery sewage treatment of with, 1,139,778
—, tanning using, 1,236,468
—, tanning compound made with, 1,241,950; 1,443,697
—, testilupine, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, testin acid, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, tin dioxide, treatment of with, 1,471,751
—, titanium(ic) oxide pigment made with, 1,223,357
—, trinitroresorcinate made with, 1,308,393
—, varnish made with, 1,131,578
—, water softened using, 1,238,916
Alkali earth hydroxide, water, treatment of with, 1,139,778
—, whale oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of using, 1,247,516
—, wood, artificial, made with, 1,397,144
—, yeast, lupuline, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
—, zein made with, 1,320,508
—, zeolite, artificial, made with, 1,202,556; 1,202,557
—, zinc, production of using, 1,144,402; 1,483,999
—, zinc carbonate, basic, made with, 1,135,981
—, zinc hydroxide made with, 1,135,981
—, zinc oxide made with, 1,135,981
—, zinc silicates, treatment of with, 1,471,751
—, zinc sulfide, lead sulfide, separation from of using, 1,486,297
—, zirconium oxide extracted with, 1,340,888
—, *see also Barium hydroxide; Calcium hydroxide; Magnesium hydroxide; Strontium hydroxide*
Alkali earth hypochlorite, cellulose made with, 1,472,318
—, methylamine made with, 1,489,380
—, petracin made with, 1,308,060
Alkali earth hyposulfite, bornite, zinc sulfide separated from using, 1,469,042
—, chalcopyrite, zinc sulfide separated from using, 1,469,042
—, flotation process using, 1,469,042
—, gold produced using, 1,479,542
—, lead sulfide, zinc sulfide separated from using, 1,469,042
—, mercury produced using, 1,479,542
—, pyrite, zinc sulfide separated from using, 1,469,042
—, silver produced using, 1,479,542
—, zinc sulfide, bornite, separated from using, 1,469,042
—, —, chalcopyrite separated from using, 1,469,042
—, —, lead sulfide separated from using, 1,469,042
—, —, pyrite separated from using, 1,469,042
Alkali earth iodide, catalyst, phenols made with, 1,321,271
Alkali earth lactate, butter substitute made with, 1,216,675
Alkali earth manganate, iron, rust-proofing of using, 1,287,605
Alkali earth metal, alkali earth cyanide made with, 1,138,190; 1,235,887
—, alloy contg., 1,123,685; 1,158,672; 1,169,392; 1,478,062; 1,500,954
—, —, preparing, 1,359,813
—, alloy, degasifying of using, 1,478,062
—, aluminum alloy contg., 1,412,280; Re-15,407
—, ammonia, catalyst for the mfr. of, made with, 1,491,588
—, arc-welding contg., 1,363,636
—, audion made with, 1,485,505
—, bearing metal contg., 1,520,254

Alkali earth metal, caoutchouc, artificial, made with, 1,178,721
—, carbon dioxide, removal from of using, 1,478,889
—, carbon monoxide, removal from of using, 1,478,889
—, catalyst, aldol made with, 1,437,139
—, —, ammonia made with, 1,313,314
—, —, for ammonia mfr., made with, 1,491,588
—, —, hydrocyanic acid made with, 1,492,194
—, catalyst promoter for ammonia mfr., 1,313,316
—, copper, iron alloy contg., made with, 1,130,678
—, copper alloy contg., 1,169,392
—, cyanogen compound made with, 1,321,459
—, electrode, welding, made with, 1,363,636
—, gas purification for mfr. of ammonia using, 1,478,889
—, granite, coloring of using, 1,158,730
—, heater, chemical, made with, 1,506,322; 1,506,323
—, hydrogen made with, 1,506,323
—, iron, carbon free, made with, 1,130,678
—, —, manganese free, made with, 1,130,678
—, —, phosphorus free, made with, 1,130,678
—, —, silicon free, made with, 1,130,678
—, iron alloy, copper in, made with, 1,130,678
—, lamp, electric, incandescent, made with, 1,485,505
—, —, X-ray, made with, 1,485,505
—, lead alloy contg., 1,158,672; 1,500,954; 1,520,254
—, mfr. of, aluminum for, 1,311,378; 1,311,379; 1,311,380
—, —, apparatus for, 1,311,378; 1,311,379; 1,311,380; 1,521,002
—, —, calcium oxide for, 1,311,378; 1,311,379; 1,311,380
—, —, electric furnace for, 1,311,378; 1,311,379; 1,311,380
—, —, electrolytic apparatus for, 1,521,022
—, —, fluorspar for 1,311,378; 1,311,379; 1,311,380
—, —, hydrogen for, 1,311,378; 1,311,379; 1,311,380
—, —, lead anode for, 1,142,220
—, —, magnesium oxide for, 1,311,378; 1,311,379; 1,311,380
—, —, potassium cyanamide for, 1,142,220
—, —, potassium cyanide for, 1,142,220
—, —, process for, 1,142,220; 1,239,178; 1,311,378; 1,311,379; 1,311,380; 1,521,002
—, —, silicon for, 1,311,378; 1,311,379; 1,311,380
—, —, sodium cyanamide for, 1,142,220
—, —, sodium cyanide for, 1,142,220
—, —, tin anode for, 1,142,220
—, marble, coloring of using, 1,158,730
—, metal, degasifying of using, 1,478,062
—, metals separated by, 1,428,041
—, noble gases purified using, 1,485,505
—, oxygen, gas, removal from of using, 1,478,889
—, rectifier, electric, made with, 1,485,505
—, rubber, vulcanization of using, 1,159,327
—, sandstone, coloring of using, 1,158,730
—, stone, coloring of using, 1,158,730
Alkali earth metal, sulfur chloride (S_2Cl_2) preserving of using, 1,159,327
—, water, gas, removal from of using, 1,478,889
—, water gas made with, 1,506,323
Alkali earth metal alloy, caoutchouc, artificial, made with, 1,178,721
—, catalyst, ammonia made with, 1,313,314
Alkali earth metal amalgam, caoutchouc, artificial, made with, 1,178,721
Alkali earth metal compound, catalyst, ammonia made with, 1,313,314
Alkali earth molybdate, molybdenum steel from, 1,300,279
Alkali earth nitrate, alkali earth acetyl-salicylate made with, 1,217,862
—, beef, corned, cured with, 1,259,377
—, catalyst, urea made with, 1,274,503; 1,292,019
—, fertilizer made with, 1,266,198
—, flash light powder made with, 1,240,027
—, ham cured with, 1,259,377
—, mfr. of, alkali earth sulfide for, 1,321,013
—, —, aluminum nitrate for, 1,321,013
—, —, ammonia for, 1,507,993
—, —, ammonium hydroxide for, 1,507,993
—, —, apparatus for, 1,321,013
—, —, calcium carbonate for, 1,507,993
—, —, chromium nitrate for, 1,321,013
—, —, kaolin for, 1,507,993
—, —, labradorite for, 1,507,993
—, —, leucite for, 1,507,993
—, —, lime for, 1,507,993
—, —, magnesium nitrate for, 1,321,013
—, —, nitric acid for, 1,507,993
—, —, potassium carbonate for, 1,507,993
—, —, process for, 1,321,013; 1,507,993
—, meat cured with, 1,259,377
—, potassium nitrate made with, 1,296,458; 1,296,460
—, silk, artificial, viscose, precipitation of using, 1,393,197
Alkali earth nitride, alkali earth acetyl-salicylate made with, 1,217,862
—, ammonia, catalyst for the mfr. of, made with, 1,491,588
—, beef, corned, cured with, 1,259,377
—, ham cured with, 1,259,377
—, meat cured with, 1,259,377
Alkali earth oxalate, ammonia producing catalyst made with, 1,473,543
—, catalyst made with, 1,473,543
—, catalyst, urea made with, 1,292,019
Alkali earth oxide, acetone made with, 1,315,544
—, adhesive made with, 1,373,412
—, aldol made with, 1,234,156
—, alkali aluminate made with, 1,151,498; 1,151,533; 1,285,796; 1,495,498; 1,508,777
—, alkali carbonate made using, 1,514,657
—, alkali chloride made with, 1,518,375
—, alkali compounds made with, 1,151,498; 1,151,533; 1,233,273; 1,263,705; 1,285,796; 1,495,498
—, alkali earth acetyl-salicylate made with, 1,217,862
—, alkali earth carbonitride made with, 1,134,411
—, alkali earth chloride made with, 1,518,375
—, alkali earth hydroxide from, 1,318,921
—, alkali hydroxide made using, 1,514,657

Alkali earth oxide, alumina made with, 1,508,777
—, aluminum made with, 1,273,220
—, aluminum compounds made with, 1,233,273
—, aluminum oxide made with, 1,261,526; 1,263,705; 1,285,796; 1,514,657
—, ammonia made with, 1,134,411; 1,261,526; 1,483,414
—, ammonia, catalyst for the mfr. of, made with, 1,157,253; 1,491,588; 1,502,336
—, ammonia made with gases purified with compound made with, 1,483,414
—, antimony made with, 1,144,402
—, arsenic made with, 1,144,402
—, audion filament coated with, 1,467,398
—, barley-corn glumes, lupuline, removal of from using, 1,517,650
—, —, testilupine, removal of from using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
—, binder made with, 1,509,035
—, bismuth made using, 1,144,402
—, brick, sand-lime, made using, 1,514,657
—, cadmium made using, 1,144,402
—, calcium made using, 1,514,657
—, calcium chloride made with, 1,518,375
—, carbo-nitride made with, 1,310,478; 1,310,479
—, catalyst, aldol made with, 1,437,139
—, —, benzoic acid made with, 1,285,117
—, —, 1.3-butadiene made with, 1,436,819
—, —, carbon dioxide made with, 1,285,117
—, —, hydrocarbon, diolefin, made with, 1,436,819
—, —, lubricating oil made with, 1,350,814
—, —, naphthoquinone made with, 1,285,117
—, —, phthalic acid made with, 1,285,117
—, —, phthalic anhydride made with, 1,285,117; 1,489,741
—, catalyst, promoter, ammonia made with, 1,476,283
—, catalyst for the mfr. of ammonia made with, 1,157,253; 1,491,588; 1,502,336
—, cellulose made with, 1,509,034
—, cellulose, colloidal suspension of, made with, 1,509,035
—, cement made with, 1,233,273; 1,241,531; 1,507,379; 1,514,657
—, ceramic insulating material made with, 1,438,598
—, copper made with, 1,144,402; 1,275,374
—, copper compounds made with, 1,233,273
—, cresol-formaldehyde condensate made with, 1,437,726
—, dental cement made with, 1,507,379
—, dyestuff made with, 1,460,315
—, ethers made with, 1,245,742
—, ethyl ether made with, 1,245,742
—, fertilizer made with, 1,233,273; 1,267,473; 1,508,777; 1,518,565
—, fuel made with, 1,509,035
—, glass compound made with, 1,143,885
—, gold, production of using, 1,144,402
—, heater, electric, made with, 1,507,379
—, hydrochloric acid made with, 1,245,742
—, incendiary composition contg., 1,308,463
—, indoxyl made with, 1,211,413; Re-14,364
—, indoxyl, mfr. of, uses of, 1,293,680
Alkali earth oxide, insulation, electric, made with, 1,143,885
—, —, heat, made with, 1,509,035
—, iodine compounds made with, 1,509,035
—, iron made using, 1,144,402
—, lamp, electric, made with, 1,269,520
—, lead made with, 1,144,402; 1,483,999
—, lead chromate pigment made with, 1,441,612
—, leather, artificial, made with, 1,334,297
—, lupuline, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, magnesium compound made with, 1,233,273
—, manganese dioxide made with, 1,188,705
—, metal made with, 1,518,375
—, methyl ether made with, 1,245,742
—, molded article made with, 1,146,299
—, nickel compounds made with, 1,233,273
—, nitric acid made with, 1,200,334
—, nitrogen, fixation of using, 1,175,007
—, nitrogen dioxide, absorption of with, 1,316,950
—, nitrogen tetroxide, absorption of with, 1,316,950
—, phenol aldehyde condensate made with, 1,146,300
—, phenol aldehyde condensate solvent contg., 1,146,299
—, plastic made with, 1,146,299; 1,507,379
—, plate printing, made with, 1,146,299
—, porcelain made with, 1,507,379
—, potassium aluminate made with, 1,191,104
—, potassium chloride made with, 1,247,619; 1,254,450; 1,254,451
—, potassium compound made with, 1,247,619; 1,254,450; 1,254,451; 1,495,498
—, potassium salts made with, 1,509,035
—, quebracho tanning compound made with, 1,241,950
—, record, phonograph, made with, 1,146,299
—, resistance, electric, made with, 1,507,379
—, rubber, reclaiming of, using, 1,510,706
—, silicon nitrogen compounds prepared with. 1,415,280
—, silver production of, using, 1,144,402
—, size made with, 1,373,412
—, sugar juice clarified using, 1,233,919
—, sulfur dichloride decolorized with, 1,464,137
—, sulfur dichloride neutralized with, 1,464,137
—, sulfur monochloride decolorized with, 1,464,137
—, sulfur monochloride neutralized with, 1,464,137
—, tanning compound made with, 1,241,950; 1,437,726; 1,443,697
—, testilupine, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,656
—, testin acid, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, waterproofing made with, 1,373,412
—, yeast, lupuline, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650

Alkali earth oxide, yeast, testin acid, removal of from, using, 1,517,650
—, zinc, production of using, 1,144,402; 1,154,601; 1,483,999
—, zinc sulfite made with, 1,198,241
—, zirconium oxide extracted with, 1,340,888
Alkali earth orthosilicate, alkali aluminate made with, 1,285,796
—, alkali compound made with, 1,285,796
—, aluminum oxide made with, 1,285,796
Alkali earth oxychloride, cadmium production of using, 1,247,413
—, cadmium chloride made with, 1,247,413
—, catalyst, 1.3-butadiene made with, 1,436,819
—, —, diolefins made with, 1,436,819
—, —, hydrocarbon, diolefin, made with, 1,436,819
—, cobalt production of using, 1,247,413
—, cobalt chloride made with, 1,247,413
—, copper production of using, 1,247,413
—, copper chloride made with, 1,247,413
—, nickel production of using, 1,247,413
—, nickel chloride made with, 1,247,413
—, petracin made with, 1,308,060
—, zinc production of using, 1,247,413
—, zinc chloride made with, 1,247,413
Alkali earth perborate, linen, bleaching of, using, 1,501,553
Alkali earth percarbonate, linen, bleaching of, using, 1,501,553
Alkali earth permanganate, iron, rust-proofing of using, 1,287,605
—, mfr. of, process for, 1,453,562
Alkali earth peroxide, see Alkali earth dioxide
Alkali earth persulfate, battery, storage, negative plate for made with, 1,164,464
—, linen, bleaching of using, 1,501,553
Alkali earth phenolate, ammonia producing catalyst made with, 1,473,543
—, catalyst made with, 1,473,543
Alkali earth phosphate, acid, rust-proofing using, 1,167,966
—, alkali earth acetyl-salicylate made with, 1,217,862
—, catalyst, copper as, made with, 1,500,794
—, —, dehydrogenation, made with, 1,215,335
—, —, hydrogenation, made with, 1,215,335; 1,500,794
—, catalyst for the mfr. of nitrogen oxide made with, 1,239,125
—, copper, catalyst, made with, 1,500,794
—, dehydrogenation, catalyst for, made with, 1,215,335
—, enamel, opaque, made with, 1,314,831
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, fertilizer made with, 1,144,405; 1,163,130; 1,266,199
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831;
—, hydrogenation, catalyst for, made with, 1,215,335; 1,500,794
—, nitrogen oxide, catalyst for the mfr. of, made with, 1,239,125
Alkali earth phosphate, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, water softener contg., 1,162,024
Alkali earth polysulfide, battery, electric, contg., 1,316,760
—, explosive contg., 1,128,380
Alkali earth propionate, acetone made with, 1,470,885
—, butter substitute made with, 1,216,674
—, diethyl ketone made with, 1,470,885
—, ethyl methyl ketone made with, 1,470,885
Alkali earth pyrolignates, water softening composition contg., 1,399,651
Alkali earth resinate, explosive contg., 1,473,257
Alkali earth saccharate, sugar juice clarified using, 1,233,919
Alkali earth salicylate, purification of, hydrogen sulfide for, 1,459,900
—, —, lead salts for, 1,459,900
—, —, process for, 1,459,900
—, —, tin chloride for, 1,459,900
—, —, tin salicylate for, 1,459,900
—, —, tin salt for, 1,459,900
—, —, tin(ous) salt for, 1,459,900
Alkali earth salt, acetyl-salicylic acid, product contg., made with, 1,486,373
—, alkali aluminate made with, 1,151,498; 1,151,533
—, alkali compound made with, 1,151,498; 1,151,533
—, alkali perborate made with, 1,253,061
—, aluminum oxide made with, 1,415,280
—, ammonia made with, 1,415,280; 1,487,521
—, battery, dry, made with, 1,490,450
—, bleaching process using, 1,155,101; 1,155,102; 1,163,438
—, bornite, zinc sulfide separated from using, 1,469,042
—, brick, slag, made with, 1,123,841
—, calcium cyanamide made with, 1,164,087
—, calcium sulfate hydrated with, 1,442,406
—, case hardening compound made with, 1,361,131
—, casein article made with, 1,159,879
—, casein artificial, colored, made with, 1,159,878
—, catalyst, urea mfr. by, 1,292,019
—, catalyst promoter, ammonia made with, 1,476,283
—, cement, hydraulic, made with, 1,123,841; 1,123,964
—, chalcopyrite, zinc sulfide separated from using, 1,469,042
—, citric acid made with, 1,166,674
—, colloidal solution made with, 1,189,696
—, coloring matter made with, 1,164,036; 1,164,037; 1,173,330
—, concrete, filler for, made with, 1,123,841
—, cotton, bleaching of, using, 1,163,438
—, cyanides made with, 1,415,280; 1,487,521
—, cyanogen compound made with, 1,321,459
—, diastatic product made with, 1,192,584
—, diatomaceous earth, treatment of with, 1,503,133
—, diatomite, treatment of with, 1,503,133
—, dye made with, 1,173,330
—, dyestuff precipitated by, 1,387,596

Alkali earth salt, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, —, printing composition for, made with, 1,164,036; 1,164,037; 1,173,330
—, ferrocyanide made with, 1,487,521
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, filter-aid made with, 1,503,133
—, flotation process using, 1,469,042
—, fossil flour, treatment of with, 1,503,133
—, *d*-fructose made with, 1,166,674
—, *d*-glucose made with, 1,166,674
—, glyoxylic acid made with, 1,227,706
—, hydrogen dioxide made with, 1,128,966
—, infusorial earth, treatment of with, 1,503,133
—, kieselguhr, treatment of with, 1,503,133
—, koji made with, 1,192,584
—, lead sulfide, zinc sulfide separated from using, 1,469,042
—, linen, bleaching of, using, 1,163,438
—, mineral wool made with, 1,123,841
—, molded article made with, 1,159,879
—, 2-naphthol-3.6-disulfonic acid, 2-naphthol-6.8-disulfonic acid, separation from of, using, 1,494,096
—, 2-naphthol-6.8-disulfonic acid, 2-naphthol-3.6-disulfonic acid, separation of from using, 1,494,096
—, —, 2-naphthol-6-sulfonic acid, separation of from, using, 1,494,096
—, 2-naphthol-6-sulfonic acid, 2-naphthol-6.8-disulfonic acid, separation from of using, 1,494,096
—, paint made with, 1,164,036; 1,164,037; 1,173,330
—, phenol aldehyde condensate made with, 1,237,579
—, pigment made with, 1,155,462; Re-14,289
—, potassium carbonate made with, 1,123,841
—, potassium compound made with, 1,123,841
—, pyrite, zinc sulfide separated from using, 1,469,042
—, quebracho, tanning compound of, made with, 1,241,950
—, roofing, silicate, made with, 1,123,941
—, silicon dioxide made with, 1,415,280
—, silicon nitride made with, 1,415,280
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, sodium perborate made with, 1,253,061
—, sucrose made with, 1,166,674
—, sugar, invert, made with, 1,166,674
—, sulfur dichloride decolorized with, 1,464,137
—, sulfur dichloride neutralized with, 1,464,137
—, sulfur monochloride decolorized with, 1,464,137
—, sulfur monochloride neutralized with, 1,464,137
—, syrup made with, 1,166,674
—, tanning compound made with, 1,241,950
—, therapeutic product made with, 1,486,373
—, thiocyanate made with, 1,487,521
—, titanium dioxide made with, 1,487,521
—, urea made with, 1,419,157
—, zeolite, artificial, made with, 1,499,795
Alkali earth salt, zinc sulfide, bornite separated from using, 1,469,042
—, —, chalcopyrite separated from using, 1,469,042
—, —, lead sulfide separated from using, 1,469,042
—, —, pyrite separated from using, 1,469,042
Alkali earth selenite, catalyst, urea made with, 1,292,019
Alkali earth silicate, alkali earth acetyl-salicylate made with, 1,217,862
—, enamel, opaque, made with, 1,314,831
—, fabric, amylaceous, removal of from, using, 1,505,534
—, fiber, amylaceous, removal of from, using, 1,505,534
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
—, mfr. of, calcium carbonate for, 1,256,295
—, —, calcium hydroxide for, 1,256,295
—, —, feldspar for, 1,256,295
—, —, lime, cull, for, 1,256,295
—, —, process for, 1,256,295
—, nitroglycerol made with, 1,138,916; 1,138,917
—, silk thread made with, 1,202,534
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
Alkali earth silicofluoride, zinc sulfide made with, 1,171,246
Alkali earth sludge sulfonate, detergent made with, 1,303,779
—, mfr. of, process for, 1,303,779
—, —, sodium chloride for, 1,303,779
—, saponification process using, 1,303,779
—, soap, salt-water, made with, 1,303,779
Alkali earth solution, purification of, process for, 1,503,229
Alkali earth sulfate, alkali earth acetyl-salicylate made with, 1,217,862
Alkali earth sulfate, alkali earth sulfide made with, 1,212,702; 1,492,810; 1,495,187
—, aluminum potassium sulfate made with, 1,296,457
—, battery, storage, made with, 1,512,485
—, bornite, zinc sulfide separated from using, 1,469,042
—, catalyst, urea made with, 1,274,503; 1,292,019
—, catalysts in sulfur dioxide reduction, 1,359,114
—, cement, hydraulic, made with, 1,124,238
—, —, Sorel, made with, 1,124,238
—, chalcopyrite, zinc sulfide separated from using, 1,469,042
—, copper made with, 1,483,999
—, fertilizer made with, 1,266,199
—, lead sulfide, zinc sulfide separated from using, 1,469,042
—, mfr. of, ammonia for, 1,127,219
—, —, hydrogen sulfide for, 1,127,219
—, —, polythionate for, 1,127,219
—, —, process for, 1,127,219
—, —, tetrathionate for, 1,127,219
—, potassium from cement kiln gas with, 1,296,465
—, potassium chloride made with, 1,124,238

Alkali earth sulfate, potassium compound made with, 1,217,388; 1,217,390
—, potassium sulfate made with, 1,296,457; 1,297,638
—, pyrite, zinc sulfide separated from using, 1,469,042
—, silk, artificial, viscose, precipitation of using, 1,393,197
—, sulfur made with, 1,359,114
—, wood pulp, sulfite, made with, 1,427,125
—, zinc sulfide, bornite separated from using, 1,469,042
—, —, chalcopyrite separated from using, 1,469,042
—, —, lead sulfide separated from using, 1,469,042
—, —, pyrite separated from using, 1,469,042
Alkali earth sulfhydrate, chalcopyrite, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, copper sulfide ore, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, dyestuff made with, 1,521,206
—, iron sulfide ore, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, lead ore, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, nickel sulfide ore, concentration of, using, 1,197,590
—, —, flotation of using, 1,197,590
—, ore, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, pyrite, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, silver ore, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, sphalerite, concentration of, using, 1,197,590
—, —, flotation of using, 1,197,590
—, zinc ore, concentration of using, 1,197,590
—, —, flotation of, using, 1,197,590
—, zinc sulfide ore, concentration of, using, 1,197,580
—, —, flotation of, using, 1,197,590
Alkali earth sulfide, alkali earth nitrate made with 1,321,013
—, aluminum hydroxide made with, 1,321,013
—, bornite, zinc sulfide separated from using, 1,469,042
—, catalyst, urea made with, 1,274,503; 1,292,019
—, catalyst in sulfur dioxide reduction, 1,359,114
—, cellulose nitrate, screens for, cleaned with, 1,367,111
—, cellulose nitrate compositions, screens for, cleaned with, 1,367,111
—, chalcopyrite, flotation of using, 1,235,954
—, —, zinc sulfide separated from using, 1,469,042
—, copper carbonate ore, flotation of using, 1,235,954
—, copper ore, flotation of using, 1,235,954
—, —, nickel ore, separation of from using, 1,235,954
—, copper oxide ore, flotation of using, 1,235,954
Alkali earth sulfide, copper sulfide ore, flotation of using, 1,235,954
—, —, iron sulfide ore, separation of from using, 1,235,954
—, cuprous sulfide from, 1,292,075
—, dyestuff made with, 1,202,821; 1,521,206
—, flotation process using, 1,235,954; 1,469,042
—, hair carrotted with, 1,466,698
—, hydrogen sulfide made with, 1,321,013
—, insulation, electric, made with, 1,397,144
—, iron sulfide ore, copper sulfide ore, separation of from, using, 1,235,954
—, lead sulfide, zinc sulfide separated from using, 1,469,042
—, lead sulfide ore, flotation of, using, 1,235,954
—, mfr. of, alkali earth hydroxide for, 1,502,213
—, —, alkali earth sulfate for, 1,212,702; 1,492,810; 1,495,187
—, —, apparatus for, 1,212,702; 1,495,187, 1,502,213
—, —, carbon for, 1,212,702
—, —, carbon electrode for, 1,502,213
—, —, carbon monoxide for, 1,212,702
—, —, coal for, 1,212,702
—, —, coke for, 1,212,702
—, —, electrolytic process for, 1,502,213
—, —, iron electrode for, 1,502,213
—, —, process for, 1,212,702; 1,492,810; 1,495,187; 1,502,213
—, —, sulfur for, 1,502,213
—, molded article made with, 1,397,144
—, nickel ore, copper ore, separation of from using, 1,235,954
—, ocher substitute made with, 1,175,751
—, pigment made with, 1,175,751
—, plastic made with, 1,397,144
—, potassium compound made with, 1,217,390
—, pyrite, zinc sulfide separated from using, 1,469,042
—, resin, artificial, made with, 1,397,144
—, sphalerite, flotation of using, 1,235,954
—, sulfur made with, 1,359,114
—, sulfur removed from oil by, 1,357,225
—, sulfur from petroleum with, 1,300,816
—, sulfuric acid from, 1,292,075
—, wood, artificial, made with, 1,397,144
—, zinc sulfide made with, 1,171,246
—, zinc sulfide, bornite separated from using, 1,469,042
—, —, chalcopyrite separated from using, 1,469,042
—, —, lead sulfide separated from using, 1,469,042
—, —, pyrite separated from using, 1,469,042
—, zinc sulfide ore, flotation of using, 1,235,954
Alkali earth sulfite, alkali earth acetyl-salicylate made with, 1,217,862
—, bornite, zinc sulfide separated from using, 1,469,042
—, catalysts in sulfur dioxide reduction, 1,359,114
—, chalcopyrite, zinc sulfide separated from using, 1,469,042
—, dyestuff, indanthrene, leuco derivatives of, made with, 1,247,927
—, —, indigo, leuco derivatives of, made with, 1,247,927

Alkali earth sulfite, dyestuff, leuco derivatives of, made using, 1,247,927
—, —, vat, leuco derivatives of, made with, 1,247,927
—, fatty acid, water, separation of from using, 1,159,355
—, flotation process using, 1,469,042
—, indigo, leuco derivatives of, made with, 1,247,927
—, lead sulfide, zinc sulfide separated from using, 1,469,042
—, mfr. of, alkali earth bicarbonate for, 1,164,649
—, —, alkali earth bisulfite for, 1,164,649
—, —, alkali earth carbonate for, 1,164,649
—, —, apparatus for, 1,164,649
—, —, process for, 1,164,649
—, oil, fatty, water, separation of from using, 1,159,355
—, —, mineral, water, separation of from using, 1,159,355
—, —, water, separation of from using, 1,159,355
—, potassium compound made with, 1,217,390
—, pyrite, zinc sulfide, separated from using, 1,469,042
—, sulfur made with, 1,359,114
—, tallow, water, separation of from using, 1,159,355
—, thioindigo, leuco derivatives of, made with, 1,247,927
—, zinc sulfide, bornite separated from using, 1,469,042
—, —, chalcopyrite, separated from using, 1,469,042
—, —, lead sulfide separated from using, 1,469,042
—, —, pyrite, separated from using, 1,469,042
Alkali earth tartrate, ammonia producing catalyst made with, 1,473,543
—, catalyst made with, 1,473,543
Alkali earth thiosulfate, acid, potassium compound made with, 1,217,390
—, mfr. of, ammonia for, 1,127,219
—, —, hydrogen sulfide for, 1,127,219
—, —, process for, 1,127,219
—, —, tetrathionate for, 1,127,219
—, potassium compound made with, 1,217,390
Alkali earth titanate, electrode, arc lamp, made with, 1,205,377
Alkali earth titano-fluoride, electrode, arc-lamp, made with, 1,281,796
Alkali earth trinitroresorcinate, priming charge contg., 1,308,393
Alkali earth tungstate, tungsten steel from, 1,300,279
Alkali earth vanadate, vanadium steel from, 1,300,279
Alkali earth zincate, zinc sulfide made with, 1,171,246
Alkali earth zirconate, zirconium oxide, white, made with, 1,158,769
Alkali ethyl-xanthate, mfr. of, alkali hydroxide for, 1,507,089
—, —, benzene for, 1,507,089
—, —, carbon bisulfide for, 1,507,089
—, —, carbon tetrachloride for, 1,507,089
—, —, ethyl alcohol for, 1,507,089
Alkali ethyl-xanthate, mfr. of, gasolene for, 1,507,089
—, —, process for, 1,507,089
Alkali fatty sulfonate, cellulose ethers, composition of and, 1,217,028
—, ethyl cellulose, composition of and, 1,217,028
—, filament, artificial, made with, 1,217,028
—, hair, artificial, made with, 1,217,028
—, silk, artificial, made with, 1,217,028
Alkali ferricyanide, catalyst, ammonia made with, 1,473,543
—, *p*-dimethylamino-phenol ferrocyanide made with, 1,144,141
—, *p*-hydroxyphenyl-trimethylammonium ferrocyanide made with, 1,144,141
Alkali ferrocyanide, alkali cyanide made with, 1,143,952
—, catalyst, ammonia made with, 1,473,543
—, indantherene made with, 1,518,051
—, mfr. of, alkali carbonate for, 1,259,702
—, —, alkali hydroxide for, 1,259,702
—, —, carbonate for, 1,259,702
—, —, cyanogen for, 1,259,702
—, —, hydroxide for, 1,259,702
—, —, illuminating gas for, 1,259,702
—, —, iron(ous) chloride for, 1,259,702
—, —, iron(ous) hydroxide for, 1,259,702
—, —, iron(ous) sulfate for, 1,259,702
—, —, process for, 1,143,952; 1,259,702
Alkali fluoride, alkali aluminum fluoride made with, 1,517,686
—, alkali cyanide made with, 1,481,373; 1,481,374
—, alkali sodium fluoride made with, 1,517,686
—, carnotite, treatment of with, 1,255,144
—, cerium fluoride made with, 1,272,375
—, chromite, treatment of with, 1,255,144
—, chromium ore, treatment of with, 1,255,144
—, electrode, arc lamp, made with, 1,164,728
—, —, arc-light, made with, 1,134,148; 1,148,183; 1,148,184; 1,159,511
—, enamel, opaque, made with, 1,314,861
—, ferberite, treatment of with, 1,255,144
—, glass, opaque, made with, 1,245,487
—, huebernite, treatment of with, 1,255,144
—, lamp, incandescent, made with, 1,166,464
—, magnesium, electrodesposition of, bath contg., 1,310,449; 1,310,450
—, —, production of using, 1,310,449; 1,310,450
—, mfr. of, apparatus for, 1,301,325
—, —, process for, 1,301,325
—, molybdenite, treatment of with, 1,255,144
—, molybdenum ore, treatment of with, 1,255,144
—, potassium sulfate made with, 1,194,464
—, rare earth fluoride made with, 1,272,375
—, scheelite, treatment of with, 1,255,144
—, tungsten ore, treatment of with, 1,255,144
—, tungstite, treatment of with, 1,255,144
—, uranium ore, treatment of with, 1,255,144
—, vanadium ore, treatment of with, 1,255,144
—, wolframite, treatment of with, 1,255,144
—, wood preserved with, 1,274,171
Alkali fluosilicate, enamel, iron, made with, 1,256,455; 1,256,456
—, wood preservative contg., 1,265,370
—, *see also Alkali silicofluoride*

Alkali formate, alkali cyanide made with, 1,417,702
—, alkali oxalate made with, 1,280,622; 1,281,117; 1,281,118
—, aluminum sulfate, composition of and, 1,493,945
—, ammonia made with, 1,417,702
—, ammonia producing catalyst made with, 1,473,543
—, butter substitute made with, 1,232,016
—, casein made with, 1,167,434
—, casein glue made with, 1,167,434
—, catalyst made with, 1,473,543
—, catalyst, urea made with, 1,292,019
—, formic acid made with, 1,185,028
—, glycol made with, 1,215,903
—, mfr. of, alkali hydroxide for, 1,185,028
—, —, amalgam for, 1,185,028
—, —, apparatus for, 1,185,028
—, —, carbon dioxide for, 1,185,028
—, —, mercury for, 1,185,028
—, —, platinum anode for, 1,185,028
—, —, potassium amalgam for, 1,185,028
—, —, process for, 1,185,028
—, methyl formate made with, 1,215,903
—, propanediol made with, 1,215,903
—, sodium oxalate made with, 1,281,117; 1,281,118
Alkali glycerate, phenol aldehyde condensate, composition of and, 1,441,981
—, resin, artificial, made with, 1,441,981
—, varnish made with, 1,441,981
—, *see also Sodium glycerate*
Alkali glyoxylate, *dl*-tartaric acid made with, 1,181,555
—, *meso*-tartaric acid made with, 1,181,555
—, tartrates made with, 1,181,555
Alkali halide, alkali cyanide made with, 1,472,403; 1,481,373; 1,481,374
—, alkali metal made from, 1,258,529
—, antiseptic contg., 1,255,335
—, arsenic acid made with, 1,125,086
—, diastatic product made with, 1,192,584
—, diatomaceous earth product made with, 1,502,547
—, filter aid made with, 1,502,547
—, germicide contg., 1,255,335
—, insulation made with, 1,502,547
—, koji made with, 1,192,584; 1,263,817
—, lamp, incandescent, made with, 1,166,464
—, metals recovered from slag with, 1,414,491
—, paint made with, 1,502,547
—, potassium recovered with, 1,311,043
—, soap made with, 1,502,547
—, sodium arsenate (Na_2HAsO_4), made with, 1,125,086
—, —, sodium arsenate (Na_3AsO_4), made with, 1,125,086
—, sodium tungstate made with, 1,255,144
—, tetraiodo-hexamethylenetetramine solvent as solution of, 1,255,335
Alkali halogenide, photograph, copper silver compound print, toning of with, 1,473,568
—, —, mercury silver compound print, toning of with, 1,473,568
—, —, silver bromide print, toning of with, 1,473,568
Alkali halogenide, photograph, silver chloride print, toning of with, 1,473,568
—, —, silver ferrocyanide print, toning of with, 1,473,568
—, —, silver iodide print, toning of with, 1,473,568
Alkali hydrate, solution of, mfr. of, 1,334,989
Alkali hydrazoate, primer made with, 1,174,669; 1,184,316
Alkali hydrosulfide, battery, electric, contg., 1,316,760
—, dyestuff made with, 1,496,084
Alkali hydrosulfite, dyestuff made with, 1,253,252
—, indigo derivatives, reaction of with, 1,414,335
—, *see also Alkali hyposulfite*
Alkali hydroxide, abrasive made with, 1,263,710
—, acetic acid made with, 1,178,223; 1,201,850
—, acetone made with, 1,201,850
—, acetylene chlorinated with chlorine and, 1,425,669
—, adhesive made with, 1,198,100; 1,248,039; 1,257,307; 1,266,354; 1,273,571; 1,324,332; 1,373,412; 1,378,128
—, air dried using, 1,169,371
—, albuminous product made from, 1,169,634
—, alcohols made with, 1,201,850; 1,245,818; 1,253,055
—, alcohol dehydrated with, 1,466,435; Re-15,783
—, aldehydes made with, 1,201,850
—, aldol made with, 1,450,984
—, alizarin made with, 1,355,100
—, alkali acetyl-salicylate made with, 1,129,953; 1,217,862
—, alkali aluminate made with, 1,271,192; 1,285,796; 1,495,498; 1,508,777
—, alkali amide made with, 1,163,498
—, alkali benzoate made with, 1,463,255
—, alkali benzyl phthalate made with, 1,485,377; 1,485,378
—, alkali benzyl succinate made with, 1,485,377; 1,485,379
—, alkali compound made with, 1,283,951; 1,285,796; 1,495,498
—, alkali cyanamide made with, 1,163,498
—, alkali cyanide made with, 1,138,190; 1,138,191; 1,163,498; 1,322,195; 1,358,383; 1,385,335; 1,385,336; 1,417,702; 1,472,403; 1,481,373; 1,481,374
—, alkali ethyl-xanthate made with, 1,507,089
—, alkali ferrocyanide made with, 1,259,702
—, alkali formate made with, 1,185,028
—, alkali metal made with, 1,191,799
—, alkali earth acetyl-salicylate made with, 1,217,862
—, akali manganate made with, 1,318,891
—, alkali permanganate made with, 1,318,432; 1,318,891
—, alkali silicate made with, 1,231,423
—, alkali sulfide made with, 1,312,668; 1,502,213
—, alkaloids extracted by, 1,447,400
—, alloys, treatment of with, 1,471,751
—, *α*-allyl-*α.α*-diethyl-acetamide made with 1,482,343
—, aloe plant fiber, treatment of with, 1,193,703
—, alum made with, 1,256,605

Alkali hydroxide, alum clay contg., extraction from of, 1,308,429
—, alumina made with, 1,286,718; 1,508,777
—, aluminum made with, 1,196,734
—, aluminum, coating of, treatment of surface before using, 1,144,000
—, —, white coating applied to with, 1,289,215
—, aluminum alloy, coating of, treatment of surface before using, 1,144,000
—, aluminum compounds contg., extraction from of, 1,308,429
—, aluminum hydroxide made with, 1,324,318; 1,483,627
—, aluminum oxide made with, 1,228,119; 1,256,605; 1,262,062; 1,285,796; 1,415,280
—, aluminum oxide, treatment of with, 1,471,751
—, aluminum salts made with, 1,196,734
—, aluminum sulfate made with, 1,483,627; 1,503,603
—, aluminum sulfate, basic, made with, 1,256,605
—, amber substitute made with, 1,502,945
—, ammonia made with, 1,138,191; 1,149,653; 1,156,606; 1,415,280; 1,417,702; 1,483,414
—, ammonia, catalyst for the mfr. of, made with 1,483,412
—, —, liquid, solubility in of, 1,314,231
—, ammonia made with gases purified with compound made with, 1,483,414
—, ammonium phosphate made with, 1,270,515
—, ammonium salts made with, 1,156,606
—, amyl carbohydrate made with, 1,504,178
—, amyl cellulose made with, 1,504,178
—, amyl dextrin made with, 1,504,178
—, amyl starch made with, 1,504,178
—, animal dip made with, 1,137,844
—, antimony made with 1,144,402
—, antiseptic made with, 1,145,634
—, arsenic made with, 1,144,402
—, arsenic compound made with, 1,512,432
—, *N*-(*p*-arsonophenyl)glycinamide made with, 1,280,119; 1,280,124
—, bactericide made with, 1,145,634
—, bamboo fiber, treatment of with, 1,193,703
—, barium acetyl-salicylate made with, 1,217,862
—, barium sulfate, treatment of with, 1,471,751
—, barley-corn glumes, lupuline, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
—, bast fiber, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, battery made with, 1,289,609
—, battery, electric, electrolyte for contg., 1,134,093
—, —, electrolyte for, made with, 1,484,784
—, —, primary, made with, 1,201,479; 1,201,480; 1,219,074; 1,484,781; 1,484,784
—, —, zinc, electrode for, coating of using, 1,484,783
—, battery electrode made with, 1,438,086
—, bauxite contg., extraction from of, 1,308,429
—, beer made with, 1,149,704
—, benzoate made with, 1,463,255
—, benzoic acid made with, 1,463,255
—, benzyl carbohydrate made with, 1,504,178
Alkali hydroxide, benzyl cellulose made with, 1,483,738; 1,504,178
—, benzyl dextrin made with, 1,504,178
—, benzyl ethyl cellulose made with, 1,451,331
—, benzyl starch made with, 1,504,178
—, beryllium carbonate made with, 1,216,980; 1,216,981
—, beryllium hydroxide made with, 1,216,980; 1,216,981
—, beryllium oxide made with, 1,216,980; 1,216,981
—, billiard ball made with, 1,482,358
—, binder made with, 1,509,035
—, bismuth made using, 1,144,402
—, bismuth acetyl-salicylate made with, 1,217,862
—, bituminous emulsion made with, 1,517,075
—, bleaching, electricity for, 1,415,186
—, board made with, 1,245,984
—, bromelia fiber, treatment of with, 1,193,703
—, bucking vegetable matter using, 1,156,048
—, building material, waterproofing of, using, 1,177,156
—, butyl carbohydrate made with, 1,504,178
—, butyl cellulose made with, 1,504,178
—, butyl dextrin made with, 1,504,178
—, butyl ether dehydrated with, 1,466,435; Re-15,783
—, butyl starch made with, 1,504,178
—, butyric acid made with, 1,178,223
—, cadmium made using, 1,144,402
—, calcium acetyl-salicylate made with, 1,217,862
—, calcium chloride made with, 1,253,055
—, calcium phosphate (CaH_4), made with, 1,270,515
—, camphor made with, 1,518,732
—, carbohydrate ether made with, 1,504,178
—, carbon made with, 1,188,936
—, carbon, activated, made with, 1,505,496
—, —, decolorizing, revivifying of, using, 1,189,896
—, carbonate ore, flotation of, using, 1,492,904; 1,505,324
—, carbon black made with, 1,188,936
—, carbon dioxide, absorbent for, made with, 1,223,244
—, —, flue gas, removal from of, using, 1,239,516
—, —, nitrogen, removal from of, using, 1,239,516
—, carbon monoxide, hydrogen, separation from of, using, 1,126,371
—, carvacrol made with, 1,265,800
—, casein, treatment of using, 1,209,539
—, cassiterite, flotation of, using, 1,497,310
—, catalyst, aldol made with, 1,437,139
—, —, 1.3-butadiene made with, 1,436,819
—, —, copper as, made with, 1,500,794
—, —, dehydrogenation, made with, 1,271,013
—, —, diolefin made with, 1,436,819
—, —, hydrocarbon, diolefin, made with, 1,436,819
—, —, hydrogenation made with, 1,271,013; 1,500,794
—, —, lubricating oil made with, 1,350,814
—, —, phenol-acetone condensate made with, 1,397,144

Alkali hydroxide, catalyst, urea-formaldehyde condensate made with, 1,482,357
—, catalyst for the mfr. of ammonia made with, 1,483,412
—, catalyst promoter, ammonia made with, 1,476,283
—, celluloid substitute made with, 1,245,818; 1,245,976; 1,245,983; 1,245,984; 1,275,324; 1,280,862; 1,427,645
—, cellulose, colloidal suspension of, made with, 1,509,035
—, cellulose ether made with, 1,188,376; 1,441,989; 1,483,738; 1,488,355; 1,502,379; 1,504,178; 1,505,043
—, cellulose nitrate plastic substitute made with, 1,502,945
—, cement made with, 1,502,945; 1,507,379
—, cement, waterproofing of using, 1,231,468; 1,519,285; 1,519,286
—, cereal, proteid extracted from with, 1,321,479; 1,321,480
—, cerium acetyl-salicylate made with, 1,217,862
—, chaff, treatment of with, 1,472,319; 1,472,320; 1,472,321
—, chalocite, flotation of using, 1,492,904
—, chalcopyrite, flotation of using, 1,492,904
—, chromite, treatment of with, 1,471,751
—, chromium hydroxide made with, 1,486,961
—, chromium potassium sulfate made with, 1,486,961
—, cigarette holders made with, 1,482,357; 1,482,358
—, cinnabar, treatment of with, 1,471,751
—, clay contg., extraction from of, 1,308,429
—, cleaner made with, 1,340,315
—, cloth, cement, for, made with, 1,482,357
—, coating composition made with, 1,492,027
—, cocoa fiber, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, cocoanut fiber, treatment of with, 1,193,703
—, cod oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, colloid made with, 1,502,945
—, compound, $C_6H_6O_6HgNa_2$, made with, 1,513,115
—, —, $C_{10}H_8O_7HgNa_2$, made with, 1,513,115
—, —, heat-producing, contg., 1,309,209
—, concrete, waterproofing of using, 1,519,285; 1,519,286
—, copper made with, 1,156,606; 1,184,585; 1,440,186; 1,483,999; 1,509,774
—, copper, catalyst, made with, 1,500,794
—, copper carbonate ore, flotation of with, 1,312,668; 1,492,904
—, —, sulfidation of with, 1,312,668
—, copper compound made with, 1,228,119
—, copper ore, flotation of with, 1,312,668; 1,505,324
—, —, sulfidation of with, 1,312,668
—, copper oxide ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper salts made with, 1,156,606
—, copper silicate, treatment of with, 1,471,751
—, copper silicate ore, flotation of using, 1,492,904
—, copper sulfate made with, 1,156,606
Alkali hydroxide, copper sulfide made with, 1,502,213
—, copper sulfide ore, flotation of using, 1,492,904
—, corn, proteid extracted from with, 1,321,479; 1,321,480
—, corn oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, corn straw, treatment of with, 1,472,319; 1,472,320; 1,472,321
—, cotton, effect on of, 1,288,884; 1,288,885
—, —, mercerized, fabric, treatment of using, 1,515,691
—, cotton fabric, organdie effects on, made using, 1,519,376
—, —, transparent effects on, made using, 1,519,376
—, —, treatment of using, 1,515,691
—, —, wool-like effects on, made using, 1,518,931; 1,519,376
—, cotton seed oil, bleaching of, using, 1,200,713
—, —, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, —, refining of using, 1,246,379
—, cotton seed oil extracted using, 1,347,870
—, cresosote oil substitute made with, 1,242,188
—, cresol-formaldehyde condensate mfr. with, 1,437,726
—, cyanide made with, 1,322,195; 1,415,280
—, decolorizing of, carbon anode for, 1,415,186
—, —, electrolyte process for, 1,415,186
—, —, graphite anode for, 1,415,186
—, —, iron anode for, 1,415,186
—, —, platinum anode for, 1,415,186
—, —, process for, 1,415,186
—, dental cement made with, 1,507,379
—, dentrifice contg., 1,471,987
—, detergent made with, 1,165,498; 1,360,252; 1,360,253; 1,360,254
—, detinning process using, 1,511,590
—, dextrin made with, 1,324,332
—, dextrin ether made with, 1,504,178
—, dibenzanthrone made with, 1,478,027
—, didymium acetyl-salicylate made with, 1,217,862
—, diethyl ketone dehydrated with, 1,466,435; Re-15,783
—, difficultly soluble material rendered soluble using, 1,471,751
—, door knobs made with, 1,482,358
—, dye, sulfur, made with, 1,308,552
—, dyestuff made with, 1,207,762; 1,216,134; 1,243,042; 1,244,795; 1,244,796; 1,253,252; 1,323,263; 1,329,435; 1,460,315; 1,478,027; 1,488,411; 1,494,400
—, dyestuff, bucking of, using, 1,156,048
—, earth contg., extraction from of, 1,308,429
—, enamel opaque, made with, 1,123,760
—, —, white, made with, 1,123,760
—, ethane made with, 1,201,850
—, ethers made with, 1,459,177
—, ethyl alcohol from cellulose sulfite liquor and, 1,320,043
—, ethyl carbohydrate made with, 1,504,178

Alkali hydroxide, ethyl cellulose made with, 1,483,738; 1,504,178; 1,505,043
—, ethyl dextrin made with, 1,504,178
—, ethyl-α-(diethylaminobutyl)-acetoacetate made with, 1,429,922
—, ethyl-α-(diethylaminoethyl)-acetoacetate made with, 1,429,922
—, ethyl α-(dimethylaminoethyl)-acetoacetate made with, 1,429,922
—, ethylene made with, 1,201,850
—, ethylene glycol made with, 1,259,757; 1,259,758
—, ethyl ether dehydrated with, 1,466,435; Re-15,783
—, ethyl ether purified using, 1,189,602
—, ethyl methyl ketone dehydrated with, 1,466,435; Re-15,783
—, ethyl propyl ether dehydrated with, 1,466,435; Re-15,783
—, ethyl starch made with, 1,504,178
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, fat, emulsion of, made using, 1,230,599
—, —, refining of using, 1,147,392
—, fat hydrogenated with, 1,472,882
—, fatty acid made with, 1,178,223
—, fatty acids, cod oil, removal from of, using, 1,247,516
—, —, corn oil, removal from of, using, 1,247,516
—, —, cotton seed oil, removal from of, using, 1,247,516
—, —, fish oil, removal from of, using, 1,247,516
—, —, marine animal oil, removal from of, using, 1,247,516
—, —, menhaden oil, removal from of, using, 1,247,516
—, —, oil, vegetable, removal from of, using, 1,247,516
—, —, whale oil, removal from of, using, 1,247,516
—, —, unsaturated, treatment of with, 1,481,845
—, fatty acid hydrogenated with, 1,472,882
—, ferrites, treatment of with, 1,471,751
—, ferro-molybdenum made with, 1,278,408
—, fertilizer made with, 1,158,711; 1,162,802; 1,162,944; 1,232,553; 1,289,789; 1,508,777
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, —, treatment of with, 1,472,319; 1,472,320; 1,472,321
—, —, vegetable, bleached with, 1,251,614
—, fiber board made with, 1,514,655
—, film made with, 1,502,945
—, fish oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, flax, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757; 1,374,941
—, floor covering made with, 1,245,984; 1,421,086
—, flotation process using, 1,182,890; 1,203,374; 1,203,375; 1,240,597; 1,240,598; 1,364,304; 1,364,305; 1,364,306; 1,486,297; 1,492,904; 1,497,310; 1,505,324
—, flue gas, carbon dioxide, removal of from, using, 1,239,516
—, fodder made with, 1,472,319; 1,472,320; 1,472,321
Alkali hydroxide, fodder mfr. from straw with, 1,442,321; 1,422,322
—, food product made with, 1,245,818; 1,275,324
—, formaldehyde made with, 1,143,114; 1,201,850
—, formaldehyde-urea condensate made with, 1,482,357; 1,482,358
—, formate made with, 1,190,845
—, formic acid made with, 1,178,223
—, fuel made with, 1,509,035
—, fuel, liquid, made with, 1,242,188
—, fungicide made with, 1,231,741
—, galena, flotation of, using, 1,203,374; 1,203,375; 1,497,310
—, —, pyrite, separation of from, using, 1,182,890
—, —, sphalerite, separation from of, using, 1,182,890; 1,203,374; 1,203,375
—, —, zinc sulfide ore, separation from of, using, 1,203,374; 1,203,375
—, gas, sulfur, removal of from using, 1,133,087
—, —, sulfur compound, removal of from using, 1,133,087
—, gear made with, 1,514,508
—, Georgia prime oil, refining of using, 1,130,698
—, glue made with, 1,200,488
—, glue, vegetable, made with, 1,198,100; 1,248,039; 1,257,307; 1,266,354; 1,269,678; 1,273,571; 1,324,332; 1,357,310
—, glutamic acid made with, 1,255,390
—, glycol made with, 1,237,076; 1,259,757; 1,259,758
—, glycoxylate made with, 1,190,845
—, glyoxylic acid made with, 1,190,845
—, gold production of using, 1,144,402
—, grass bleached with, 1,251,614
—, grass, treatment of with, 1,472,319; 1,472,320; 1,472,321
—, gum, artificial, made with, 1,225,748; 1,225,749; 1,225,750
—, halloysite contg., extraction from of, 1,308,429
—, handles made with, 1,482,357; 1,482,358
—, heater, electric, made with, 1,507,379
—, heat producing compound contg., 1,129,056
—, hemp made with, 1,146,987
—, hemp, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, —, treatment of with, 1,193,703
—, hop beverages made with, 1,149,704
—, hydrocarbons dehydrated with, 1,466,435; Re-15,783
—, hydrochloric acid insoluble material rendered soluble using, 1,471,751
—, hydrogen made using, 1,172,885
—, hydrogen, carbon monoxide, separation of from, using, 1,126,371
—, —, sulfur, removal of from using, 1,133,087
—, —, sulfur compound, removal of from using, 1,133,087
—, hydrogenation, catalyst for, made with, 1,500,794
—, hydrogenation process using, 1,247,516; 1,472,882
—, indantherene made with, 1,451,270
—, indoxyl made with, 1,211,413; Re-14,364
—, ink, lithographic, made with, 1,131,578

Alkali hydroxide, insecticide made with, 1,137,844; 1,185,603; 1,231,741; 1,512,432
—, insulation, electric, made with, 1,131,578; 1,183,423; 1,245,976; 1,245,980; 1,245,981; 1,245,984; 1,397,144; 1,514,508
—, —, heat, made with, 1,279,975; 1,509,035
—, iodine compounds made with, 1,509,035
—, iron made with, 1,144,402; 1,519,973
—, iron, coloring of, using, 1,501,425
—, —, rust-proofing of, with, 1,317,351
—, iron coated with lead using, 1,276,978
—, iron hydroxide pigments from, 1,420,985
—, iron molybdate made with, 1,278,408
—, iron ore, treatment of using, 1,519,973
—, iron oxide (Fe_3O_4), treatment of with, 1,471,751
—, iron(ic) oxide, treatment of with, 1,471,751
—, iron oxide pigment made with, 1,490,372
—, iron oxide purified with, 1,318,432
—, iron(ous) sulfate made with, 1,489,417; Re-15,973
—, iron sulfide made with, 1,502,213
—, istle, treatment of with, 1,193,703
—, ivory substitute made with, 1,245,976; 1,482,357; 1,482,358; 1,514,509
—, jelly-like material made with, 1,502,945
—, jute, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, ketones made with, 1,201,850
—, ketones dehydrated with, 1,466,435; Re-15,783
—, ketone aldehyde condensate made with, 1,502,945
—, lacquer made with, 1,245,818; 1,245,981; 1,245,982; 1,275,324; 1,427,645; 1,502,945
—, laterite contg., extraction from of, 1,308,429
—, lead production of using, 1,144,402; 1,184,585; 1,483,999
—, lead arsenate made with, 1,512,432
—, lead coating for iron using, 1,276,978
—, lead coating for metal using, 1,276,978
—, lead compound made with, 1,228,119
—, lead ore, flotation of, using, 1,505,324
—, lead peroxide made with, 1,506,633
—, lead sulfide made with, 1,502,213
—, lead sulfide, zinc sulfide, separation from of, using, 1,486,297
—, lead sulfide ore, flotation of, using, 1,203,374; 1,203,375
—, —, pyrite, separation from of, using, 1,182,890
—, —, sphalerite, separation from of, using, 1,203,374; 1,203,375
—, —, zinc sulfide ore, separation from of, using, 1,182,890; 1,203,374; 1,203,375
—, leather, artificial, made with, 1,245,818; 1,245,977; 1,275,324; 1,427,645
—, leaves bleached with, 1,251,614
—, legume, proteid extracted from with, 1,321,479; 1,321,480
—, lime-sulfur made with, 1,231,741
—, linoleum substitute made with, 1,245,978; 1,245,984; 1,427,645
—, linseed oil substitute made with, 1,257,562
—, liquids, organic, dehydrated with, 1,466,435; Re-15,783
—, lithium acetyl-salicylate made with, 1,217,862
Alkali hydroxide, loss of cyanide gases prevented during treatment of ore by using, 1,158,514
—, lubricant made with, 1,180,547
—, lubricant, used, treatment of with, 1,281,354
—, lupuline, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, machine oil, emulsion of, made using, 1,230,599
—, magnesium acetyl-salicylate made with, 1,217,862
—, magnesium chloride made with, 1,231,423
—, magnesium compound made with, 1,231,423
—, magnesium oxide made with, 1,231,423
—, magnesium salts made with, 1,254,230
—, magnesium silicate made with, 1,254,230
—, magnesium sulfate made with, 1,231,423; 1,254,230
—, manganates mfr. with, 1,337,239
—, manganese dioxide made with, 1,188,705
—, manganese dioxide, treatment of with, 1,471,751
—, manganese oxide (Mn_2O_3), treatment of with, 1,471,751
—, manila fiber, treatment of with, 1,193,703
—, mfr. of, albite for, 1,514,657
—, —, alkali aluminate for, 1,514,657
—, —, alkali amide for, 1,198,987
—, —, alkali chloride for, 1,150,370; 1,160,847; 1,176,551; 1,222,239; 1,264,536
—, —, alkali earth hydroxide for, 1,260,944; 1,351,693
—, —, alkali earth oxide for, 1,514,657
—, —, alkali silicate for, 1,463,037
—, —, apparatus for, 1,150,370; 1,159,154; 1,160,847; 1,176,551; 1,200,025; 1,222,239; 1,236,025; 1,238,600; 1,264,536; 1,365,875; 1,476,284
—, —, asbestos for, 1,160,847
—, —, asbestos diaphragm for, 1,222,239
—, —, barite for, 1,160,847
—, —, barium sulfate for, 1,160,847
—, —, bauxite for, 1,514,657
—, —, calcium carbonate for, 1,514,657
—, —, calcium chloride for, 1,514,657
—, —, calcium hydroxide for, 1,260,944; 1,463,037
—, —, calcium oxide for, 1,514,657
—, —, carbon for, 1,238,600; 1,514,657
—, —, carbon anode for, 1,238,600
—, —, carbon dioxide for, 1,160,171; 1,160,172
—, —, cement rock for, 1,160,171; 1,160,172
—, —, clay for, 1,160,171; 1,160,172; 1,514,657
—, —, electrolytic apparatus for, 1,150,370; 1,176,540; 1,176,541; 1,176,551; 1,236,025; 1,284,618
—, —, electrolytic cell for, 1,441,408
—, —, electrolytic process for, 1,159,154; 1,160,847; 1,222,239; 1,365,875
—, —, feldspar for, 1,160,171; 1,160,172; 1,260,944; 1,514,657
—, —, granite for, 1,160,171; 1,160,172
—, —, graphite for, 1,238,600
—, —, graphite anode for, 1,236,025; 1,238,600
—, —, gypsum for, 1,160,171; 1,160,172
—, —, kelp for, 1,238,600
—, —, leucite for, 1,260,944; 1,514,657
—, —, lime for, 1,514,657

Alkali hydroxide, mfr. of, limestone for, 1,160,171; 1,160,172
—, —, magnesia for, 1,514,657
—, —, magnesium carbonate for, 1,514,657
—, —, magnesium hydroxide for, 1,260,944
—, —, magnesium oxide for, 1,514,657
—, —, magnetite anode for, 1,238,600
—, —, marl for, 1,160,171; 1,160,172
—, —, mercury for, 1,200,025
—, —, mercury cathode for, 1,176,551; 1,238,600
—, —, mica for, 1,160,171; 1,160,172
—, —, nickel for, 1,238,600
—, —, orthoclase for, 1,514,657
—, —, potassium carbonate for, 1,514,657
—, —, potassium hydoxide for, 1,514,657
—, —, process for, 1,149,210; 1,149,211; 1,150,370; 1,159,154; 1,160,171; 1,160,172; 1,160,847; 1,176,551; 1,198,987; 1,200,025; 1,222,239; 1,236,025; 1,238,600; 1,260,944; 1,264,536; 1,365,875; 1,476,284; 1,514,657
—, —, shale for, 1,160,171; 1,160,172
—, —, silicates for, 1,260,944
—, —, slate for, 1,160,171; 1,160,172
—, —, sodium carbonate for, 1,514,657
—, —, sodium chloride for, 1,514,657
—, —, sodium hydroxide for, 1,514,657
—, —, steam for, 1,514,657
—, —, zeolite for, 1,514,657
—, marine animal oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, material for generating, 1,342,148
—, menhaden oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, mercuric oxide from mercuric chloride and, 1,293,863
—, mercury compound made with, 1,513,115
—, metal, treatment of with, 1,471,751
—, metal coated with lead using, 1,276,978
—, metal sulfide made with, 1,502,213
—, metatitanic acid made with, 1,489,417; Re-15,973
—, methane made with, 1,201,850
—, methyl alcohol made with, 1,253,055
—, methyl carbohydrate made with, 1,504,178
—, methyl cellulose made with, 1,483,738; 1,504,178
—, methyl dextrin made with, 1,504,178
—, methyl ethyl ketone dehydrated with, 1,466,435
—, methyl starch made with, 1,504,178
—, mineral, treatment of with, 1,471,751
—, molded article made with, 1,397,144; 1,427,645; 1,482,357; 1,482,358; 1,502,945; 1,514,508; 1,514,509
—, molybdenum extracted with, 1,399,554
—, montan wax, imitation, made with, 1,485,706
—, mortar, waterproofing of using, 1,519,285; 1,519,286
—, mucin, solvent for, contg., 1,471,987
—, naphtha, emulsion of, made using, 1,230,599
—, naphthalene made with, 1,242,188
—, naphthalene derivative made with, 1,242,188
—, 1-naphthol-8-sulfonamide made with, 1,503,172
—, nasal douche contg., 1,471,987
Alkali hydroxide, nasal tissue, mucin on, solvent for, contg., 1,471,987
—, nickel boride catalyst made with, 1,255,590
—, nickel hydroxide made with, 1,167,484
—, nickel silicate, treatment of with, 1,471,751
—, nickel sulfide made with, 1,502,213
—, nitric acid insoluble material rendered soluble using, 1,471,751
—, *p*-nitroaniline mfr. with, 1,400,555
—, nitro-benzene made with, 1,483,835
—, nitrocellulose, screens in mfr. of, cleaned with, 1,367,111
—, nitrogen, carbon dioxide, removal of from, using, 1,239,516
—, nitrogen dioxide, absorption of with, 1,316,950
—, nitrogen tetroxide absorption of with, 1,316,950
—, nitro-toluene made with, 1,483,835
—, nitro-xylene made with, 1,483,835
—, oil, animal, hydrogenated, made with, 1,472,882
—, —, non-sludging, made with, 1,472,882
—, —, —, refining of using, 1,130,698; 1,246,379
—, —, lubricating, used, treatment of with, 1,281,354
—, —, mineral, emulsion of, made using, 1,230,599
—, —, —, hydrogenated with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, —, refining of using, 1,147,392
—, —, vegetable, fatty acids, removal of from, using, 1,247,516
—, —, —, hydrogenation of, using, 1,247,516; 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, —, —, refining of using, 1,130,698; 1,246,379
—, olefin glycol made with, 1,259,757; 1,259,758
—, ore, aluminum contg., extraction from of, 1,308,429
—, —, copper, flotation of with, 1,312,668
—, —, —, sulfidation of with, 1,312,668
—, —, flotation of with, 1312,668
—, —, sulfidation of with, 1,312,668
—, —, treatment of with, 1,471,751
—, ornaments made with, 1,482,357; 1,482,358
—, oxide ore, flotation of using, 1,492,904; 1,505,324
—, oxygen made with, 1,124,304; 1,172,885
—, paint made with, 1,131,578; 1,216,980; 1,216,981
—, paint remover made with, 1,223,518
—, palm leaf fiber, treatment of with, 1,193,703
—, paper made with, 1,151,490
—, paper, brown, made with, 1,196,708
—, —, cement for, made with, 1,482,357
—, —, craft, made with, 1,196,708
—, —, waterproof, made with, 1,517,075
—, —, wrapping, made with, 1,196,708
—, paper leaves made with, 1,307,404
—, paper pulp made with, 1,151,490; 1,196,708
—, paper stock, ink removed from using, 1,138,085
—, paracoumarone made with, 1,360,665
—, paraffin, emulsion of, made with, 1,230,599
—, paraformaldehyde, solvent for contg., 1,170,624

Alkali hydroxide, paraindene made with, 1,360,665
—, Paris green made with, 1,512,432
—, petroleum, non-sludging, made with, 1,472,882
—, phenol made using, 1,245,343; 1,321,271
—, phenol aldehyde condensate made with, 1,146,300; 1,187,229; 1,187,232; 1,225,748; 1,225,749; 1,225,750; 1,252,507; 1,271,392; 1,271,393
—, phenol aldehyde condensate solvent contg., 1,146,299
—, phenol aldehyde condensate substitute made with, 1,245,976
—, phosphates made with, 1,270,515
—, phosphoric acid made with, 1,270,515
—, pigment made with, 1,216,980; 1,216,981; 1,420,985; 1,489,417; Re-15,973
—, pigment, iron oxide as, made with, 1,490,372
—, pipe bowl made with, 1,482,357
—, pipe stems made with, 1,482,357; 1,482,358
—, plaster, waterproofing of, using, 1,177,156
—, plastic made with, 1,245,981; 1,245,984; 1,397,144; 1,502,945; 1,507,379
—, porcelain made with, 1,507,379
—, potassium made with, 1,196,734
—, potassium acetylsalicylate made with, 1,217,862
—, potassium aluminate made with, 1,191,105
—, potassium aluminum sulfate made with, 1,256,605
—, potassium carbonate made with, 1,215,517; 1,215,518; 1,483,627
—, potassium compound made with, 1,215,517; 1,215,518; 1,495,498
—, potassium permanganate made with, 1,318,432
—, potassium phosphate made with, 1,270,515
—, potassium silicates, treatment of with, 1,471,751
—, potassium sulfate made with, 1,270,515; 1,286,718
—, potassium salts made with, 1,196,734; 1,509,035
—, propionic acid made with, 1,178,223
—, propyl carbohydrate made with, 1,504,178
—, propyl cellulose made with, 1,504,178
—, propyl dextrin made with, 1,504,178
—, propylene made with, 1,201,850
—, propylene glycol made with, 1,259,757; 1,259.758
—, propyl ether dehydrated with, 1,466,435; Re-15,783
—, propyl starch made with, 1,504,178
—, *iso*-propyl carbohydrate made with, 1,504,178
—, *iso*-propyl cellulose made with, 1,504,178
—, *iso*-propyl dextrin made with, 1,504,178
—, *iso*-propyl starch made with, 1,504,178
—, proteid made with, 1,275,324
—, proteid, vegetable, made with, 1,275,308
—, proteid product made with, 1,245,818; 1,245,976; 1,245,981
—, pulp board made with, 1,365,716
—, pyrazole-anthrone yellow made with, 1,329,435
—, pyrite, galena, separation from of, using, 1,182,890
Alkali hydroxide, pyrite, lead sulfide ore, separation from of, using, 1,182,890
—, pyrocatechol made with, 1,321,271
—, pyrolusite treated with, 1,303,911
—, radium made with, 1,165,692; 1,165,693
—, ratan fiber, treatment of with, 1,193,703
—, record, phonograph, made with, 1,482,358; 1,513,120
—, resin, artificial, made with, 1,360,665; 1,397,144; 1,502,945
—, —, emulsion of, made using, 1,230,599
—, resistance, electric, made with, 1,507,379
—, rhyolite ash contg., extraction from of, 1,308,429
—, rhyolite mud contg., extraction from of, 1,308,429
—, rubber, artificial, made with, 1,275,324
—, —, hard, substitute, made using, 1,512,979
—, —, imitation, made with, 1,245,818
—, —, reclaiming of using, 1,124,920; 1,235,850; 1,235,852
—, —, synthetic, made with, 1,248,888; 1,436,819
—, —, vulcanization of, using, 1,238,236
—, —, vulcanization accelerator for, contg., 1,271,810
—, rubber latex, *Hevea Brasiliensis*, coagulation of using, 1,145,351; 1,145,352
—, —, Para, coagulation of using, 1,145,351; 1,145,352
—, "rubber like acetone compound" made with, 1,502,945
—, rubber reclaimed with, 1,324,093
—, rubber substitute made with, 1,245,976; 1,245,979; 1,245,984; 1,427,645
—, rush, treatment of with, 1,472,319; 1,472,320; 1.472,321
—, rustproofing using, 1,247,086
—, sand, magnetic, treatment of using, 1,519,973
—, separation of from alkali cyanide, 1,295,049
—, silicate ore, flotation of, using, 1,505,324
—, silicic acid made with, 1,324,318; 1,483,627
—, silicon dioxide made with, 1,415,280
—, silicon nitride made with, 1,415,280
—, silk, artificial, cuprammonium, precipitation of, with alkali carbonate and, 1,317,306
—, —, —, —, —, with alkali chloride and, 1,317,306
—, —, —, —, —, with copper carbonate and, 1,317,306
—, —, —, fabric, treatment of using, 1,515,691
—, silver production of using, 1,144,402; 1,184,585
—, silver acetyl-salicylate made with, 1,217,862
—, silver chloride ore, flotation of, using, 1,505,324
—, size made with, 1,365,715; 1,373,412
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, sisal, treatment of with, 1,193,703
—, soap made with, 1,196,274; 1,285,004
—, sodium acetyl-salicylate made with, 1,217,862
—, sodium aluminate made with, 1,156,606
—, sodium cyanide made with, 1,322,195
—, sodium permanganate made with, 1,318,432
—, sodium phosphate made with, 1,270,515
—, sodium silicate made with, 1,254,230

Alkali hydroxide, sodium uranate made with, 1,165,692; 1,165,693
—, sodium uranate purified using, 1,224,014
—, solution of, cellulose nitrate, screens for, cleaned with, 1,367,111
—, —, cellulose nitrate compositions, screens for, cleaned with, 1,367,111
—, southern moss fiber, treatment of with, 1,193,703
—, soya bean proteid, extracted from with, 1,321,479; 1,321,480
—, sphalerite, flotation of, using, 1,497,310
—, —, galena, separation from of, using, 1,182,890; 1,203,374; 1,203,375
—, —, lead sulfide ore, separation from of, using, 1,203,374; 1,203,375
—, stalks bleached with, 1,251,614
—, starch made with, 1,156,801; 1,224,951
—, starch ether made with, 1,350,820; 1,504,178
—, steel, coloring of, using 1,501,425
—, —, rust-proofing of with, 1,317,351
—, stone, waterproofing of, using, 1,177,156
—, straw, treatment of with, 1,472,319; 1,472,320; 1,473,321
—, straw bleached with, 1,251,614
—, strontium acetyl-salicylate made with, 1,217,862
—, sulfide, soluble, made with, 1,310,151
—, sulfide ore, treatment of with, 1,471,751
—, sulfur dichloride decolorized with, 1,464,137
—, sulfur dichloride neutralized with, 1,464,137
—, sulfuric acid insoluble material rendered soluble using, 1,471,751
—, sulfur monochloride decolorized with, 1,464,137
—, sulfur monochloride neutralized with, 1,464,137
—, sulfur removed from petroleum with, 1,413,005
—, sunflower oil, emulsion of, made using, 1,230,599
—, tanning using, 1,236,468
—, tanning compounds made with, 1,437,726; 1,443,697
—, tapioca substitute made with, 1,324,332
—, tartaric acid made with, 1,190,845
—, tartrate made with, 1,190,845
—, testilupine, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, testin acid, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, 3.5.3′.5′-tetramino-2.2′-dibrom-4.4′-di(methylamino)-arseno-benzene, action on of, 1,265,865
—, 3.5.3′.5′-tetramino-2.2′-dichlor-4.4′-di(methylamino)-arseno-benzene, action on of, 1,265,865
—, 3.5.3′.5′-tetramino-2.4.2′-4′-tetra(methylamino)-arsenobenzene, action on of, 1,265,865
—, 3.5.3′.5′-tetramino-2.2′.6.6′-tetrachlor-4.4′-di(methylamino)-arseno benzene, action on, of, 1,265,865
—, Texas fever tick, animal dip for, made with, 1,137,844
—, therapeutic product made with, 1,513,115
Alkali hydroxide, thio-protein compounds made with, 1,145,634
—, tile made with, 1,245,984
—, tillandsia fiber, treatment of with, 1,193,703
—, tin dioxide, treatment of with, 1,471,751
—, titanium dioxide made with, 1,489,417; Re-15,973
—, toilet articles made with, 1,482,358
—, treatment of, process for, 1,324,332
—, trinitroresorcinate made with, 1,308,393
—, trioxymethylene, solvent for contg., 1,170,624
—, tungsten made with, 1,483,567
—, uranates purified using, 1,224,014
—, uranium made with, 1,165,692; 1,165,693
—, uranium compound purified using, 1,224,014
—, urea-formaldehyde condensate made with, 1,482,357
—, urethral membrane, mucin on, solvent for, contg., 1,471,987
—, vaginal membrane, mucin on, solvent for, contg., 1,471,987
—, vanadium made with, 1,165,692; 1,165,693
—, varnish made with, 1,131,578; 1,245,818; 1,257,562; 1,275,324; 1,280,861; 1,427,645; 1,482,357; 1,502,945
—, varnish remover made with, 1,223,518
—, viscose made with, 1,327,933; 1,470,711
—, vulcanization accelerator, 1,350,824
—, vulcanization process using, 1,350,824
—, waterproofing made with, 1,177,156; 1,373,412; 1,517,075
—, wax, emulsion of, made using, 1,230,599
—, whale oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, wolframite, flotation of, using, 1,497,310
—, wood, artificial, made with, 1,397,144
—, —, dyeing with sulfur dyes of using, 1,181,906
—, yeast, lupuline, removal of from using, 1,517,650
—, — testin acid, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650
—, zeolite, artificial, made with, 1,202,556; 1,202,557; 1,477,757; 1,499,795; 1,515,007
—, zinc, production of using, 1,144,402; 1,154,601; 1,184,585; 1,483,999
—, zinc acetyl-salicylate made with, 1,217,862
—, zinc carbonate, basic, made with, 1,135,981
—, zinc compound made with, 1,228,119
—, zinc hydroxide made with, 1,135,981
—, zinc ore, flotation of, using, 1,505,324
—, zinc oxide made with, 1,135,981; 1,165,743
—, zinc salts made with, 1,156,606
—, zinc silicate, treatment of with, 1,471,751
—, zinc sulfate made with, 1,156,606
—, zinc sulfide, lead sulfide, separation from of, using, 1,486,297
—, zinc sulfide ore, galena, separation from of, using, 1,203,374; 1,203,375
—, —, lead sulfide ore, separation from of, using, 1,182,890; 1,203,374; 1,203,375
—, zingiberone made with, 1,306,710
—, zirconium carbonate, basic, made with, 1,216,980; 1,216,981

Alkali hydroxide, zirconium oxide made with, 1,216,980; 1,216,981
—, zirconium oxide extracted with, 1,340,888
—, zirconium sulfate made with, 1,216,980; 1,216,981
Alkali hydroxy-benzoate, phenol aldehyde condensate made with, 1,273,967
Alkali hydroxy-carboxylate, phenol aldehyde condensate made with, 1,273,967
Alkali hypochlorite, cellulose made with, 1,472,318
—, cellulose, bleaching of using, 1,470,556
—, —, sulfite, bleaching of using, 1,470,556
—, ink eradicator contg., 1,475,932
—, methylamine made with, 1,489,380
—, paper mfr. with, 1,457,915
—, petracin made with, 1,308,060
—, solutions of, producing, 1,414,059
—, wood pulp, sulfite, bleaching of using, 1,470,556
Alkali hypophosphite, nickel, coating with, using, 1,207,218
Alakli hyposulfate, dyestuff made with, 1,133,081
Alkali hyposulfite, bornite, zinc sulfide separated from using, 1,469,042
—, chalcopyrite, zinc sulfide separated from using, 1,469,042
—, China grass, dyeing with sulfur dyes of using, 1,181,906
—, cotton, dyeing of, using, 1,199,273
—, —, dyeing with sulfur dyes of using, 1,181,906
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—, furs, dyeing with sulfur dyes of using, 1,181,906
—, gold produced using, 1,479,542
—, hair, dyeing with sulfur dyes of using, 1,181,906
—, hemp, dyeing with sulfur dyes of using, 1,181,906
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—, —, sulfuric acid for, 1,477,130
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—, silk, artificial, dyeing with sulfur dyes of using, 1,181,906
—, —, dyeing of using, 1,199,273
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—, —, lead sulfide separated from using, 1,469,042
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—, record, phonograph, made with, 1,146,299
Alkali oxide, resistance, electric, made with, 1,507,379
—, rhyolite ash contg., extraction from of, 1,308,429
—, rhyolite mud contg., extraction from of, 1,308,429
—, silicon dioxide made with, 1,415,280
—, silicon nitride made with, 1,415,280
—, silver, production of using, 1,144,402
—, sulfur dichloride decolorized with, 1,464,137
—, sulfur dichloride neutralized with, 1,464,137
—, sulfur monochloride decolorized with, 1,464,137
—, sulfur monochloride neutralized with, 1,464,137
—, tanning compounds made with, 1,437,726; 1,443,697
—, testilupine, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, testin acid, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, yeast, lupuline, removal of from, using, 1,517,650
—. —, testilupine, removal of from, using, 1,517,650
—. —, testin acid, removal of from, using, 1,517,650
—, zinc, production of using, 1,144,402; 1,483,999
—, zirconium oxide extracted with, 1,340,888
Alkali oxychloride, catalyst, 1.3-butadiene made with, 1,436,819
—, —, hydrocarbon, diolefin, made with, 1,436,819
—, catalyst in diolefin preparation, 1,436,819
—, petracin made with, 1,308,060
Alkali package, 1,342,148
Alkali per-acid salt, soap made with, 1,153,167
Alkali perborate, bast fiber, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, bleaching process using, 1,155,101; 1,155,102; 1,155,103; 1,155,104
—, boric acid made with, 1,262,589
—, cocoa fiber, bleaching of using, 1,247,757
—, —, retting of using, 1,247,757
—, detergent made with, 1,144,186
—, jute, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, hemp, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, flax, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, linen, bleaching of, using, 1,501,553
—, magnesium perborate made with, 1,124,081
—, hydrogen peroxide made with, 1,262,589
—, hydrogen peroxide, concentrated, made with, 1,262,589
—, mfr. of, acacia for, 1,253,061
—, —, albumin for, 1,253,061
—, —, alkali borate for, 1,235,904; 1,235,905; 1,253,060; 1,253,061; 1,268,369; 1,281,983
—, —, alkali carbonate for, 1,268,369; 1,281,983
—, —, alkali chromate for, 1,253,061
—, —, alkali earth chromate for, 1,253,061

Alkali perborate, mfr. of, alkali earth salts, for, 1,253,061
—, —, alkali percarbonate for, 1,235,904; 1,235,905; 1,253,060; 1,253,061
—, —, aluminum cathode for, 1,281,983
—, —, aluminum chromate for, 1,253,061
—, —, apparatus for, 1,281,983
—, —, beryllium chromate for, 1,253,061
—, —, borax for, 1,222,640; 1,268,369
—, —, carbon cathode for, 1,281,983
—, —, carbon dioxide for, 1,222,640
—, —, chromic acid for, 1,253,061
—, —, copper cathode for, 1,281,983
—, —, electrolytic cell for, 1,253,060; 1,253,061
—, —, hydrogen dioxide for, 1,222,640
—, —, hydrogen peroxide for, 1,268,369
—, —, iron cathode for, 1,281,983
—, —, lead cathode for, 1,281,983
—, —, magnesium carbonate for, 1,222,640
—, —, magnesium chloride for, 1,222,640
—, —, magnesium chromate for, 1,253,061
—, —, magnesium compound for, 1,222,640
—, —, magnesium dioxide for, 1,222,640
—, —, magnesium hydroxide for, 1,222,640
—, —, magnesium silicate for, 1,235,905
—, —, magnesium sulfate for, 1,222,640
—, —, nickel for, 1,281,983
—, —, nickel cathode for, 1,281,983
—, —, percarbonate for, 1,268,369
—, —, platinum for, 1,281,983
—, —, platinum anode for, 1,470,577
—, —, process for, 1,222,640; 1,235,904; 1,235,905; 1,253,060; 1,253,061; 1,268,369; 1,281,983
—, —, rubber for, 1,281,983
—, —, silver cathode for, 1,281,983
—, —, sodium bicarbonate for, 1,268,369
—, —, sodium carbonate for, 1,268,369
—, —, sodium dioxide for, 1,222,640
—, —, sodium hydroxide for, 1,222,640
—, —, sodium peroxide for, 1,268,369
—, —, stannic acid for, 1,235,905; 1,268,369
—, —, starch for, 1,253,061
—, —, tin cathode for, 1,281,983
—, —, zinc cathode for, 1,281,983
—, —, zinc compound for, 1,222,640
—, silk degumming process employing, 1,409,653
—, sodium sulfate made with, 1,262,589
—, *see also Perborates*
—, alkali perborate made with, 1,235,904; 1,235,905; 1,253,060; 1,253,061
Alkali percarbonate, acacia for, 1,225,722
—, bast fiber, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, cocoa fiber, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, flax, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, hemp, bleaching of using, 1,247,757
—, —, retting of, using, 1,247,757
—, jute, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, linen, bleaching of, using, 1,501,553
—, mfr. of, acacia for, 1,225,832; 1,225,872
—, —, alkali carbonate, 1,225,722; 1,225,832; 1,225,872; 1,235,904; 1,235,905
—, —, alkali magnesium silicate for, 1,225,722; 1,225,832; 1,225,872
Alkali percarbonate, mfr. of, alkali silicate for, 1,225,722; 1,225,832; 1,225,872
—, —, ethyl alcohol for, 1,263,258
—, —, hydrogen dioxide for, 1,225,722; 1,225,832; 1,225,872; 1,263,258
—, —, magnesium chloride for, 1,225,722; 1,225,832; 1,225,872
—, —, magnesium salt for, 1,225,832
—, —, magnesium silicate for, 1,225,722; 1,225,832; 1,225,872
—, —, platinum anode for, 1,470,577
—, —, process for, 1,225,722; 1,225,832; 1,225,872; 1,235,904; 1,235,905; 1,263,258
—, —, silicates for, 1,225,832; 1,225,872
—, —, sodium chloride for, 1,263,258
—, —, sodium dioxide for, 1,225,872
—, —, sodium nitrate for, 1,263,258
—, —, sodium silicate for, 1,225,872
—, oils, neutralized with, 1,395,998
—, stabilization of, acacia for, 1,225,872
—, —, alkali magnesium silicate for, 1,225,872
—, —, alkali silicate for, 1,225,872
—, —, magnesium chloride for, 1,225,872
—, —, magnesium silicate for, 1,225,872
—, —, process for, 1,225,872
—, —, silicates for, 1,225,872
—, —, sodium silicate for, 1,225,872
Alkali perchlorate explosive made with, 1,222,065; 1,243,351; 1,276,537; 1,310,466
—, mfr. of, process for, 1,173,346
Alkali permanganate, iron, rust-proofing of using, 1,287,605
—, manganese dioxide made with, 1,154,602; 1,318,432
—, mfr. of, air for, 1,318,891
—, —, alkali carbonate for, 1,318,891
—, —, alkali hydroxide for, 1,318,432
—, —, apparatus for, 1,318,891
—, —, iron oxide for, 1,318,432
—, —, iron(ic) oxide for, 1,318,432
—, —, manganese dioxide for, 1,318,891
—, —, manganese oxide for, 1,318,432
—, —, potassium carbonate for, 1,318,432
—, —, potassium hydroxide for, 1,318,432
—, —, process for, 1,318,891; 1,360,700
—, —, sodium carbonate for, 1,318,432
—, —, sodium hydroxide for, 1,318,432
—, zinc, production of using, 1,154,602; 1,241,966
Alkali peroxide, fat, bleaching of with, 1,264,206
—, —, clarification of with, 1,264,206
—, grease, bleaching of with, 1,264,206
—, —, clarification of with, 1,264,206
—, oil, bleaching of with, 1,264,206
—, —, clarification of with, 1,264,206
—, oils neutralized with, 1,395,998
—, *see Alkali dioxide*
Alkali persulfate, bast fiber, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, cocoa fiber, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, compound, heat-producing, contg., 1,309,209
—, flax, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, heat producing compound contg., 1,129,056
—, hemp, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757

Alkali persulfate, jute, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, linen, bleaching of, using, 1,501,553
—, silk degummed with, 1,409,653
—, tungsten filament made with, 1,157,288
—, tungsten ribbon made with, 1,157,288
—, tungsten wire made with, 1,157,288
Alkali phenate, see Alkali phenolate
Alkali phenolate, ammonia producing catalyst made with, 1,473,543
—, battery, storage, electrode for, made with, 1,175,954
—, camphene made with, 1,478,690
—, catalyst made with, 1,473,543
—, cattle dip made with, 1,498,639
—, finish remover made with, 1,160,394
—, flotation oil made with, 1,506,385
—, isoborneol made with, 1,478,690
—, isoborneol acetate made with, 1,478,690
—, oil, pyridine free, made with, 1,506,385
—, sheep dip made with, 1,498,639
—, wall board made with, 1,248,181
—, *see also Alkali carbolate*
Alkali phosphate, adrenaline made with, 1,399,144
—, alkali acetyl-salicylate made with, 1,217,862
—, bone black substitute made with, 1,496,229
—, catalyst, dehydrogenation, made with, 1,215,335
—, —, hydrogenation, made with, 1,215,335
—, —, oxalate made with, 1,280,622
—, —, sodium oxalate made with, 1,280,622
—, cotton, mercerized, fabric treatment of using, 1,515,691
—, cotton fabric, treatment of using, 1,515,691
—, 3.4-diacetoxy-*a*-nitromethyl benzyl alcohol made with, 1,399,144
—, dehydrogenation, catalyst for, made with, 1,215,335
—, dimetal, formaldehyde made with, 1,143,114
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, fertilizer made with, 1,174,176
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, —, vegetable, bleached with, 1,251,614
—, filtering medium made with, 1,496,229
—, film, photographic, made with, 1,493,000
—, grass bleached with, 1,251,614
—, hydrogenation, catalyst for, made with, 1,215,335
—, ink eradicator contg., 1,475,932
—, iron, rust-proofing with, 1,320,734
—, leaves bleached with, 1,251,614
—, mfr. of, feldspar for, 1,202,327
—, —, lime for, 1,202,327
—, —, phosphate rock for, 1,202,327
—, —, process for, 1,202,327
—, —, water for, 1,202,327
—, methylamine made with, 1,489,380
—, oxygen made with, 1,124,304
—, paraformaldehyde, solvent for contg., 1,170,624
—, rust-proofing using, 1,167,966
—, silk, artificial, fabric, treatment of using, 1,515,691
Alkali phosphate, silk, loading of, using, 1,173,195
—, —, weighting of using, 1,193,429; 1,207,800
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, stalks bleached with, 1,251,614
—, steel, rust-proofing with, 1,320,734
—, straw bleached with, 1,251,614
—, tertiary, dentrifice contg., 1,471,987
—, —, mucin, solvent for, contg., 1,471,987
—, —, nasal douche contg., 1,471,987
—, —, nasal tissue, mucin on, solvent for, contg., 1,471,987
—, —, vaginal membrane, mucin on, solvent for, contg., 1,471,987
—, —, urethral membrane, mucin on, solvent for, contg., 1,471,987
—, tribasic, bread made with, 1,179,877
—, trioxymethylene, solvent for contg., 1,170,624
—, water softener contg., 1,162,024
Alkali phosphite, nickel, coating with using, 1,207,218
Alkali plumbite, zeolite, artificial, made with, 1,263,707
Alkali polysulfide, battery, electric, contg., 1,316,760
—, cassiterite, flotation of, using, 1,497,310
—, dye, sulfur, made with, 1,308,552
—, dyestuff made with, 1,128,371; 1,521,206
—, explosive contg., 1,128,380
—, flotation process using, 1,497,310
—, formation of, process for, 1,160,375
—, galena, flotation of, using, 1,497,310
—, latex vulcanized with, 1,443,149
—, rubber, vulcanized, colloidal, made with, 1,443,149
—, rubber latex, *Hevea Brasiliensis*, coagulation of using, 1,145,351
—, —, Para, coagulation of using, 1,145,351
—, sphalerite, flotation of, using, 1,497,310
—, thioarsenates mfr. from, 1,422,945
—, tin, production of using, 1,124,174
—, wolframite, flotation of, using, 1,497,310
Alkali polysulfite, beer, dealcoholized, treated with, 1,308,588
Alkali proofing, mfr. of, acetone for, 1,241,738
—, —, acid anhydride for, 1,241,738
—, —, alcohol for, 1,234,381; 1,241,738
—, —, benzene for, 1,234,381
—, —, benzoyl peroxide for, 1,241,738
—, —, camphor for, 1,234,381; 1,241,738
—, —, camphor substitute for, 1,241,738
—, —, castor oil for, 1,241,738
—, —, carbon tetrachloride for, 1,234,381
—, —, cellulose acetate for, 1,241,738
—, —, chlorine for, 1,234,381
—, —, chlor-benzene for, 1,241,738
—, —, cork for, 1,241,738
—, —, *s*-dichlor-ethane for, 1,241,738
—, —, dichlor-ethylene for, 1,241,738
—, —, epichlorhydrin for, 1,241,738
—, —, esters for, 1,241,738
—, —, ethers for, 1,241,738
—, —, ethyl acetate for, 1,241,738
—, —, ethylidene diacetate for, 1,241,738
—, —, fibrous material for, 1,241,738

Alkali proofing, mfr. of, "heptachlor-caoutchouc" for, 1,234,381
—, —, ketones for, 1,241,738
—, —, lamp, mercury vapor, for, 1,241,738
—, —, metal oxide for, 1,241,738
—, —, metal scrap for, 1,508,144
—, —, oils for, 1,241,738
—, —, oxygen for, 1,241,738
—, —, ozonide for, 1,241,738
—, —, perborate for, 1,241,738
—, —, percarbonate for, 1,241,738
—, —, peroxide (organic), for, 1,241,738
—, —, petroleum ether for, 1,234,381
—, —, process for, 1,234,381; 1,241,738
—, —, rubber for, 1,234,381
—, —, rubber, plantation, for, 1,234,381
—, —, silver oxide for, 1,241,738
—, —, steam for, 1,234,381
—, —, s-tetrachlor-ethane for, 1,241,738
—, —, toluene for, 1,234,381
—, —, trichlor-ethane for, 1,241,738
—, —, ultra-violet ray for, 1,241,738
—, —, vinyl acetate for, 1,241,738
—, —, vinyl bromide for, 1,241,738
—, —, vinyl chlor-acetate for, 1,241,738
—, —, vinyl chloride for, 1,241,738
—, —, vinyl esters for, 1,241,738
—, —, vinyl halide for, 1,241,738
—, —, wood for, 1,241,738
—, —, xylene for, 1,234,381
—, —, zinc oxide for, 1,241,738
Alkali proof material, mfr. of, asphalt for, 1,513,133
—, —, benzene for, 1,513,133
—, —, bituminous material for, 1,513,133
—, —, carbon black for, 1,508,144
—, —, charcoal for, 1,508,144
—, —, coal, anthracite, for, 1,508,144
—, —, coal tar pitch for, 1,513,133
—, —, coke for, 1,508,144
—, —, gravel for, 1,508,144
—, —, hydrochloric acid for, 1,513,133
—, —, naphtha for, 1,513,133
—, —, process for, 1,508,144; 1,513,133
—, —, rock for, 1,508,144
—, —, sulfur for, 1,508,144
—, —, tar for, 1,513,133
Alkali propionate, acetone made with, 1,470,885
—, butter substitute made with, 1,232,016
—, diethyl ketone made with, 1,470,885
—, ethylmethyl ketone made with, 1,470,885
Alkali pyrolignates, water softening composition contg., 1,399,651
—, *see Alkali acetates*
Alkali pyrophosphate, formaldehyde made with, 1,143,114
—, ink eradicator contg., 1,475,932
—, paraformaldehyde, solvent for contg., 1,170,624
—, trioxymethylene, solvent contg., 1,170,624
Alkali pyrosulfate, aluminum, soldering flux for, contg., 1,139,923
—, —, welding flux for, 1,139,923
—, aluminum alloy, soldering flux for, contg., 1,139,923
—, —, welding flux for, contg., 1,139,923
—, dibutyl sulfate made with, 1,506,228
Alkali pyrosulfate, diethyl sulfate made with, 1,506,228
—, dimethyl sulfate made with, 1,506,228
—, dipropyl sulfate made with, 1,506,228
Alkali resinate, copper ore, flotation of, using, 1,191,053
—, cylinder stock, treatment of using, 1,439,171
—, flotation process using, 1,191,053
—, galena, flotation of, using, 1,191,053
—, gas oil, treatment of using, 1,439,171
—, gasolene, treatment of using, 1,439,171
—, kerosene, treatment of using, 1,439,171
—, lubricating oil, treatment of using, 1,439,171
—, naphtha, treatment of using, 1,439,171
—, oil, mineral, treatment of using, 1,439,171
—, paraffin, treatment of using, 1,439,171
—, paraffin distillate, treatment of using, 1,439,171
—, paraffin slops, treatment of using, 1,439,171
—, petroleum, treatment of using, 1,439,171
—, scale wax, treatment of using, 1,439,171
—, slack wax, treatment of using, 1,439,171
Alkali ruthenate, ammonia, catalyst for the mfr. of, made with, 1,173,532
—, catalyst for the mfr. of ammonia made with, 1,173,532
Alkali salicylate, cream, fat, determination of in, using, 1,329,183
—, milk, fat, determination of in, using, 1,329,183
—, purification of, hydrogen sulfide for, 1,459,900
—, —, lead salts for, 1,459,900
—, —, process for, 1,459,900
—, —, tin chloride for, 1,459,900
—, —, tin salicylate for, 1,459,900
—, —, tin salts for, 1,459,900
—, —, tin(ous) salt for, 1,459,900
Alkali salts, acetyl-salicylic acid, product contg., made with, 1,486,373
—, acid, zeolite, artificial, made with, 1,140,262
—, aldol made with, 1,151,113
—, alkali cyanide made with, 1,472,403; 1,506,269; 1,510,891
—, aluminum oxide made with, 1,415,280
—, amino compound for silk degumming made with, 1,254,033
—, amino compound for skin bating made with, 1,254,033
—, amino compound for turkey red dyeing made with, 1,254,033
—, ammonia made with, 1,149,653; 1,163,095; 1,415,280; 1,487,521
—, antimony, starring of, composition for contg., 1,284,164
—, bleaching using, 1,163,438
—, blue print paper made with, 1,500,433
—, board made with, 1,245,984
—, bornite, zinc sulfide separated from using, 1,469,042
—, calcium cyanamide made with, 1,164,087
—, calcium sulfate hydrated with, 1,442,406
—, case hardening compound made with, 1,361,131
—, catalyst, promoter, ammonia made with, 1,476,283
—, —, urea mfr. by, 1,292,019

Alkali salts, celluloid substitute made with, 1,245,975; 1,245,984
—, cellulose, treatment preparatory to bleaching of using, 1,133,769
—, cellulose acetate, dyeing of, using, 1,489,814
—, cement, hydraulic, made with, 1,123,964
—, chaff, treatment of with, 1,472,320
—, chalcopyrite, zinc sulfide separated from using, 1,469,042
—, coloring matter made with, 1,164,036; 1,164,037; 1,173,330
—, corn straw, treatment of with, 1,472,320
—, cotton, bleaching of, using, 1,163,438
—, cyanides made with, 1,415,280; 1,487,521; 1,506,269
—, cyanogen compound made with, 1,321,459
—, degumming of using, 1,186,440
—, dentifrice contg., 1,471,987
—, diastatic product made with, 1,192,584
—, diatomaceous earth, treatment of with, 1,503,133
—, diatomite, treatment of with, 1,503,133
—, dye made with, 1,173,330
—, dyeing, vat, using, 1,148,966
—, electrode, arc lamp, made with, 1,221,039
—, —, arc-light, made with, 1,147,422
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, —, printing composition for, made with, 1,164,036; 1,164,037; 1,173,330
—, ferrocyanide made with, 1,487,521; 1,506,269
—, fertilizer made with, 1,225,825
—, —, amylaceous, sizing, removal of from, using, 1,505,534
—, fiber, treatment of with, 1,472,320
—, —, vegetable, treatment preparatory to bleaching of using, 1,133,769
—, film, cellulose acetate, dyeing of, using 1,489,814
—, filter-aid made with, 1,503,133
—, flax, treatment preparatory to bleaching of using, 1,133,769
—, floor covering made with, 1,245,984
—, flotation process using, 1,240,597; 1,240,598; 1,469,042
—, fodder made with, 1,472,320
—, fossil flour, treatment of with, 1,503,133
—, glass, melting point of, lowered by, 1,410,665
—, glyoxylic acid made with, 1,227,706
—, grass, treatment of with, 1,472,320
—, hydrogen dioxide made with, 1,128,966
—, infusorial earth, treatment of with, 1,503,133
—, ink, printing, made with, 1,142,365
—, insulation, electric, made with, 1,245,975; 1,245,984
—, ivory substitute made with, 1,245,975
—, kelp char, extraction from of, apparatus for, 1,258,320; 1,258,321
—, —, —, process for, 1,258,320; 1,253,321
—, kieselguhr, treatment of with, 1,503,133
—, koji made with, 1,192,584
—, lead sulfide, zinc sulfide separated from using, 1,469,042
—, leather, artificial, made with, 1,245,977
—, linen, bleaching of, using, 1,163,438
—, linoleum substitute made with, 1,245,978; 1,245,984
Alkali salts, marble substitute made with, 1,245,975
—, molybdenum, coating of with, 1,236,383; 1,263,656
—, —, copper, gold alloy contg., coated, made using, 1,228,194
—, —, gold alloy, copper in, coated, made using, 1,228,194
—, —, —, iridium in, coated, made using, 1,228,194
—, —, —, palladium in, coated, made using, 1,228,194
—, —, —, platinum in, coated, made using, 1,228,194
—, —, —, silver in, coated, made using, 1,228,194
—, —, gold coated, made using, 1,228,194
—, —, iridium, gold alloy contg., coated, made using, 1,228,194
—, —, iridium coated, made using, 1,228,194
—, —, palladium, gold alloy contg., coated, made using, 1,228,194
—, —, palladium coated, made using, 1,228,194
—, —, platinum, gold alloy contg., coated, made using, 1,228,194
—, —, platinum coated, made using, 1,228,194
—, —, silver, gold alloy contg., coated, made using, 1,228,194
—, —, silver coated, made using, 1,228,194
—, —, soldering of with, 1,263,656
—, molybdenum alloy, coating of with, 1,236,383; 1,263,656
—, —, copper, gold alloy contg., coated, made using, 1,228,194
—, —, gold alloy, copper in, coated, made using, 1,228,194
—, —, —, iridium in, coated, made using, 1,228,194
—, —, —, palladium in, coated, made using, 1,228,194
—, —, —, platinum in, coated, made using, 1,228,194
—, —, —, silver in, coated, made using, 1,228,194
—, —, gold coated, made using, 1,228,194
—, —, iridium, gold alloy contg., coated, made using, 1,228,194
—, —, iridium coated, made using, 1,228,194
—, —, palladium, gold alloy contg., coated, made using, 1,228,194
—, —, palladium coated, made using, 1,228,194
—, —, platinum, gold alloy contg., coated, made using, 1,228,194
—, —, platinum coated, made using, 1,228,194
—, —, silver, gold alloy contg., coated, made using, 1,228,194
— —, silver coated, made using, 1,228,194
—, —, soldering of with, 1,263,656
—, mucin, solvent for, contg., 1,471,987
—, nasal douche contg., 1,471,987
—, nasal tissue, mucin on, solvent for, contg., 1,471,987
—, paint made with, 1,145,186; 1,164,036; 1,164,037; 1,173,330
—, paint, anti-fouling, made with, 1,145,186
—, paper made with, 1,510,070
—, paracoumarone made with, 1,395,968
—, paraindene made with, 1,395,968

Alkali salts, phenol aldehyde condensate made with, 1,237,579
—, phenol aldehyde condensate substitute made with, 1,245,975
—, plastic made with, 1,245,984
—, proteid products made with, 1,245,975
—, pyrite, zinc sulfide separated from using, 1,469,042
—, rubber substitute made with, 1,245,975; 1,245,979; 1,245,984
—, rush, treatment of with, 1,472,320
—, rust-proofing made with, 1,145,186
—, separation of, ammonium hydroxide for, 1,510,046
—, —, process for, 1,510,046
—, silicon dioxide made with, 1,415,280
—, silicon nitride made with, 1,415,280
—, silk, artificial, cellulose acetate, dyeing of, using, 1,489,814
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, sodium citrate made with, 1,491,390
—, straw, treatment of with, 1,472,320
—, straw board made with, 1,510,070
—, sulfur dichloride decolorized with, 1,464,137
—, sulfur dichloride neutralized with, 1,464,137
—, sulfur monochloride decolorized with, 1,464,137
—, sulfur monochloride neutralized with, 1,464,137
—, tanning compound made with, 1,186,500
—, *dl*-tartaric acid made with, 1,181,555
—, *meso*-tartaric acid made with, 1,181,555
—, tartrates made with, 1,181,555
—, therapeutic product made with, 1,486,373
—, thiocyanate made with, 1,487,521
—, tile made with, 1,245,984
—, titanium dioxide made with, 1,487,521
—, tungsten, coating of with, 1,236,383; 1,263,656
—, —, copper, gold alloy contg., coated, made using, 1,228,194
—, —, gold alloy, copper in, coated, made using, 1,228,194
—, —, —, iridium in, coated, made using, 1,228,194
—, —, —, palladium in, coated, made using, 1,228,194
—, —, —, platinum in, coated, made using, 1,228,194
—, —, silver in, coated, made using, 1,228,194
—, —, gold coated, made using, 1,228,194
—, —, iridium, gold alloy contg., coated, made using, 1,228,194
—, —, iridium coated, made using, 1,228,194
—, —, palladium, gold alloy contg., coated, made using, 1,228,194
—, —, palladium coated, made using, 1,228,194
—, —, platinum, gold alloy contg., coated, made using, 1,228,194
—, —, platinum coated made using, 1,228,194
—, —, silver, gold alloy contg., coated, made using, 1,228,194
—, —, silver coated, made using, 1,228,194
—, —, soldering of with, 1,263,656

Alkali salts, tungsten alloy, coating of with, 1,236,383; 1,263,656
—, —, copper, gold alloy contg., coated, made using, 1,228,194
—, —, gold alloy, copper in, coated, made using, 1,288,194
—, —, —, iridium in, coated, made using, 1,228,194
—, —, —, palladium in, coated, made using, 1,228,194
—, —, —, platinum in, coated, made using, 1,288,194
—, —, —, silver in, coated, made using, 1,228,194
—, —, gold coated, made using, 1,228,194
—, —, iridium, gold alloy contg., coated made using, 1,228,194
—, —, iridium coated, made using, 1,228,194
—, —, palladium, gold alloy contg., coated made using, 1,228,194
—, —, palladium coated, made using, 1,228,194
—, —, platinum, gold alloy contg., coated, made using, 1,228,194
—, —, platinum coated, made using, 1,228,194
—, —, silver, gold alloy contg., coated, made using, 1,228,194
—, —, silver coated, made using, 1,228,194
—, —, soldering of with, 1,263,656
—, urea made with, 1,419,157
—, urethral membrane, mucin on, solvent for, contg., 1,471,987
—, vaginal membrane, mucin on, solvent for, contg., 1,471,987
—, vanadium oxide, recovery of with, 1,259,595
—, water-softener regenerated with, 1,294,007
—, zeolite, artificial, made with, 1,499,795
—, —, —, regeneration of using, 1,499,492
—, zinc sulfide, bornite separated from using, 1,469,042
—, —, chalcopyrite separated from using, 1,469,042
—, —, lead sulfide separated from using, 1,469,042
—, —, pyrite separated from using, 1,469,042
Alkali salt solutions, purification of, process for, 1,503,229
Alkali salt of tetrabromfluorescein, see Eosine (dye)
Alkali selenite, catalyst, urea mfr. by, 1,292,019
Alkali selenosulfate, photographic image, toning of, using, 1,499,749
Alkali seleno-vanadate, mfr. of, carbon compounds for, 1,154,949
—, —, hydrochloric acid for, 1,154,949
—, —, nitric acid for, 1,154,949
—, —, process for, 1,154,949
—, —, selenium for, 1,154,949
—, —, selenium dioxide for, 1,154,949
—, —, selenium trioxide for, 1,154,949
—, —, sulfurous acid for, 1,154,949
—, —, vanadium dioxide for, 1,154,949
—, —, vanadium monoxide for, 1,154,949
—, —, vanadium pentoxide for, 1,154,949
—, —, vanadium tetroxide for, 1,154,949
—, —, vanadium trioxide for, 1,154,949

Alkali seleno-vanadate, mfr. of, carbon compounds for, 1,154,949
—, —, hydrochloric acid for, 1,154,949
—, —, nitric acid for, 1,154,949
—, —, process for, 1,154,949
—, —, selenium for, 1,154,949
—, —, selenium dioxide for, 1,154,949
—, —, selenium trioxide for, 1,154,949
—, —, sulfurous acid for, 1,154,949
—, —, vanadium dioxide for, 1,154,949
—, —, vanadium monoxide for, 1,154,949
—, —, vanadium pentoxide for, 1,154,949
—, —, vanadium tetroxide for, 1,154,949
—, —, vanadium trioxide for, 1,154,949
Alkali sesquicarbonate, antiseptic made with, 1,493,564
—, germicide made with, 1,493,564
Alkali silicate, abrasive made with, 1,239,984
—, abrasive article made with, 1,243,783
—, alkali acetyl-salicylate made with, 1,217,862
—, alkali cyanate made with, 1,264,949
—, alkali cyanide made with, 1,264,949
—, alkali compound made with, 1,283,951
—, alkali hydroxide made with, 1,463,037
—, alkali percarbonate made with, 1,225,722; 1,225,832; 1,225,872
— alkali percarbonate stabilized using, 1,225,872
—, alloy, coating of with, 1,281,108
—, alumina made with, 1,286,718
—, aluminum oxide made with, 1,239,984; 1,415,280
—, ammonia made with, 1,415,280
—, bleaching using, 1,163,438
—, binder made with, 1,266,618
—, brick made with, 1,249,028
—, calcium cyanide made with, 1,359,257
—, catalyst made with, 1,199,032
—, catalyst, hydrogenation, made with, 1,199,032; 1,238,774
—, —, —, regeneration of, using, 1,199,032
—, —, regeneration of, using, 1,199,032
—, cement made with, 1,129,320
—, cod liver oil, water, emulsion of and, made with, 1,207,936
—, concrete made with, 1,471,876
—, cotton, bleaching of, using, 1,163,438
—, cotton seed oil, refining of using, 1,169,154; 1,169,155
—, cyanides made with, 1,359,257; 1,415,280
—, electrode, arc-lamp, made with, 1,289,514; 1,326,605
—, enamel, iron, made with, 1,256,456
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, ferro-silicon made with, 1,239,984
—, fertilizer made with, 1,158,711; 1,411,696
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, —, coating of with, 1,281,108
—, —, vegetable, bleached with, 1,251,614
—, glass, coating of with, 1,281,108
—, —, frosted, made with, 1,518,807
—, glue made with, 1,129,320
—, grass bleached with, 1,251,614
—, hydrogenation, catalyst for, made with, 1,199,032; 1,238,774
—, —, —, regeneration of, using, 1,199,032
Alkali silicate, insecticide contg., 1,395,860
—, insoluble, extracting potassium compounds from, 1,349,113
—, insulation, electric, made with, 1,249,028; 1,423,985
—, —, heat, made with, 1,142,829
—, leaves bleached with, 1,251,614
—, lime made with, 1,264,949
—, linen, bleaching of, using, 1,163,438
—, lithopone made with, 1,486,077
—, mfr. of, alkali carbonate for, 1,463,037
—, —, alkali hydroxide for, 1,231,423
—, —, alkali sulfate for, 1,463,037
—, —, barium silicate (di-basic) for, 1,463,037
—, —, barium silicate (mono-basic) for, 1,463,037
—, —, barium silicate (tri-basic) for, 1,463,037
—, —, magnesium mineral for, 1,231,423
—, —, magnesium silicate for, 1,231,423
—, —, process for, 1,231,423; 1,463,037
—, —, sodium hydroxide for, 1,231,423
—, metal, coating of with, 1,280,108
—, metal A made with, 1,508,241
—, metal B made with, 1,508,241
—, nickel catalyzer mfr. with, 1,450,174
—, nitroglycerol made with, 1,138,916; 1,138,917
—, oil, animal, water, emulsion of and, made with, 1,207,936
—, —, vegetable, refining of using, 1,169,154; 1,169,155
—, —, —, water, emulsion of and, made with, 1,207,936
—, olive oil, water, emulsion of and, made with, 1,207,936
—, paint made with, 1,129,320; 1,396,970
—, photography, substance for use in developing contg., 1,277,048
—, —, substances for use in printing contg., 1,277,048
—, pigment made with, 1,129,320
—, potassium compounds made with, 1,239,948; 1,249,028; 1,283,951
—, potassium cyanate made with, 1,264,949
—, potassium cyanide made with, 1,264,949
—, potassium hydroxide made with, 1,283,951
—, potassium silicate made with, 1,283,951
—, potassium sulfate made with, 1,286,718
—, road paving made with, 1,171,236; 1,206,056; 1,266,618
—, shoe filler made with, 1,136,980
—, silicic acid made with, 1,132,394
—, silicon dioxide made with, 1,148,183; 1,148,184; 1,415,280
—, silicon nitride made with, 1,415,280
—, silicon nitrogen compounds prepared with, 1,415,280
—, silk, weighting of using, 1,193,429; 1,207,800
—, silk thread made with, 1,202,534
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, sodium percarbonate made with, 1,225,722; 1,225,832
—, stalks bleached with, 1,251,614
—, stereotype matrix made with, 1,173,907
—, stone, artificial, made with, 1,249,028

Alkali silicate, straw bleached with, 1,251,614
—, sulfur candle made with, 1,159,109
—, sulfuric acid made with, 1,239,984
—, terra cotta made with, 1,249,028
—, tile made with, 1,249,028
—, tire-healing composition ingredient, 1,434,764
—, tungsten filament made with, 1,508,241
—, zeolite, artificial, made with, 1,131,503; 1,193,795; 1,202,556; 1,202,557; 1,263,707; 1,499,492; 1,515,007
—, varnish made with, 1,129,320; 1,423,985
—, water, codliver oil, emulsion of and, made with, 1,207,936
—, —, oil, animal, emulsion of and, made with, 1,207,936
—, —, —, vegetable, emulsion of and, made with, 1,207,936
—, —, olive oil, emulsion of and, made with, 1,207,936
—, —, purification of, compound for, made with, 1,205,509
—, —, softening of, compound for, made with, 1,205,509
—, waterproofing made with, 1,231,687
—, water-proof product of, mfr. of, acid, fatty, for, 1,283,546
—, —, —, beef fat for, 1,283,546
—, —, —, bitumen, for, 1,283,546
—, —, —, oil, animal, for, 1,283,546
—, —, —, —, mineral, for, 1,283,546
—, —, —, —, vegetable, for, 1,283,546
—, —, —, paraffin for, 1,283,546
—, —, —, petroleum for, 1,283,546
—, —, —, process for, 1,283,546
—, —, —, stearin for, 1,283,546
—, —, —, tallow for, 1,283,546
—, —, —, wax for, 1,283,546
—, water softening with, 1,400,332
—, wood, coating of with, 1,281,108
—, —, fireproofing of using, 1,148,013
—, zeolite, artificial, made with, 1,205,509
Alkali silicoaluminate, formation of, 1,408,169
—, *see also Alkali aluminum silicate*
Alkali silicofluoride, zinc sulfide made with, 1,171,246
Alkali-silicophosphates, fertilizer constituents, 1,411,696
Alkali sludge sulfonate, asphalt emulsified using, 1,373,661
—, bituminous material emulsified using, 1,373,661
—, coal tar emulsified using, 1,373,661
—, cylinder stock, treatment of using, 1,439,171
—, detergent made with, 1,330,624
—, dust laying composition made with, 1,373,661
—, gas oil, treatment of using, 1,439,171
—, gasolene, treatment of using, 1,439,171
—, gasolene emulsified using, 1,373,661
—, insecticide made with, 1,373,661
—, kerosene, treatment of using, 1,439,171
—, kerosene emulsified using, 1,373,661
—, lubricant emulsified using, 1,373,661
—, lubricating oil, treatment of using, 1,439,171
—, mfr. of, acetone for, 1,493,111
—, —, alkali for, 1,493,111
Alkali sludge sulfonate, mfr. of, ethyl alcohol for, 1,493,111
—, —, methyl alcohol for, 1,493,111
—, —, process for, 1,330,624; 1,493,111
—, —, sludge sulfonic acid for, 1,493,111
—, naphtha, treatment of using, 1,439,171
—, naphtha emulsified using, 1,373,661
—, oil, mineral, treatment of using, 1,439,171
—, oil emulsified using, 1,373,661
—, paraffin, treatment of using, 1,439,171
—, paraffin distillates, treatment of using, 1,439,171
—, paraffin emulsified using, 1,373,661
—, paraffin slops, treatment of using, 1,439,171
—, petroleum, treatment of using, 1,439,171
—, petroleum distillate emulsified using, 1,373,661
—, petroleum emulsified using, 1,373,661
—, road paving made with, 1,373,661
—, roofing made with, 1,373,661
—, scale wax, treatment of using, 1,439,171
—, shale oil emulsified using, 1,373,661
—, slack wax, treatment of using, 1,439,171
—, vaseline emulsified using, 1,373,661
—, waterproofing made with, 1,373,661
—, wax emulsified using, 1,373,661
—, wax tailings emulsified using, 1,373,661
—, *see also Sludge sulfonic acid*
Alkali soaps, paraffin wax washed with, 1,439,171
Alkali soda-cellulose carbon, see Carbon, "alkali-soda-cellulose"
Alkali sodium, zeolite, artificial, made with, 1,477,757
Alkali solution, asphalt felt treated with, 1,293,293
—, paint removed with, 1,437,331
—, rubber articles vulcanized under, 1,295,594
Alkali stannate, enamel, opaque, made with, 1,181,944
—, zeolite, artificial, made with, 1,263,707
Alkali subcyanide, see Alkali cyanide (R_2CN)
Alkali substances, container for, cellulose esters for coating, 1,355,976
Alkali sulfate, abrasive made with, 1,263,710
—, alkali acetyl-salicylate made with, 1,217,862
—, alkali chloride made with, 1,493,996
—, alkali aluminum fluoride made with, 1,517,686
—, alkali cyanide made with, 1,138,190; 1,472,403; 1,481,373; 1,481,374
—, alkali nitrate made with, 1,493,996
—, alkali silicate made with, 1,463,037
—, alkali sulfide made with, 1,138,190; 1,212,702; 1,492,810; 1,495,187
—, alkali thiocyanate made with, 1,472,403
—, alum clay contg., extraction from of, 1,308,429
—, aluminum compounds contg., extraction from of, 1,308,429
—, aluminum sodium fluoride made with, 1,517,686
—, battery, storage, lead electrode for, regeneration of using, 1,147,261
—, bauxite contg., extraction from of, 1,308,429
—, bornite, zinc sulfide separated from using, 1,469,042

Alkali sulfate, calcium phosphate ($CaHPO_4$), made with, 1,493,099
—, carbon, decolorizing, made with, 1,383,755
—, catalyst, nickel as, made with, 1,165,956
—, —, sulfur dioxide reduced with, 1,359,114
—, —, urea made with, 1,274,503; 1,292,019
—, cement, hydraulic, made with, 1,124,238
—, —, Sorel, made with, 1,124,238
—, chalcopyrite, zinc sulfide separated from using, 1,469,042
—, clay contg., extraction from of, 1,308,429
—, concrete, action of on, 1,415,324
—, concrete rendered resistant to, 1,415,849
—, copper, production of using, 1,184,585; 1,483,999
—, dyestuff, sulfonating of, using, 1,217,462
—, —, triphenylmethane, sulfonating of, using, 1,217,462
—, earth contg., extraction from of, 1,308,429
—, fertilizer made with, 1,158,711; 1,162,802; 1,162,944; 1,174,176; 1,229,684; 1,493,996
—, flotation process using, 1,469,042
—, gold, production of using, 1,184,585
—, halloysite contg., extraction from of, 1,308,429
—, hydrocyanic acid made with, 1,493,996
—, iron(ic) hydroxide made with, 1,323,879
—, laterite contg., extraction from of, 1,308,429
—, lead, production of using, 1,184,585
—, lead sulfide, zinc sulfide separated from using, 1,469,042
—, mfr. of, ammonia for, 1,127,219
—, —, carbon dioxide for, 1,160,171; 1,160,172
—, —, cement kiln gas for, 1,202,327
—, —, cement rock for, 1,160,171; 1,160,172
—, —, clay for, 1,160,171; 1,160,172
—, —, feldspar for, 1,160,171; 1,160,172
—, —, granite for, 1,160,171; 1,160,172
—, —, gypsum for, 1,160,171; 1,160,172
—, —, hydrogen sulfide for, 1,127,219
—, —, limestone for, 1,160,171; 1,160,172
—, —, marl for, 1,160,171; 1,160,172
—, —, mica for, 1,160,171; 1,160,172
—, —, polythionate for, 1,127,219
—, —, process for, 1,127,219; 1,160,171; 1,160,172; 1,202,327
—, —, shale for, 1,160,171; 1,160,172
—, —, slate for, 1,160,171; 1,160,172
—, —, sulfur for, 1,202,327
—, —, sulfur dioxide for, 1,202,327
—, —, tetrathionate for, 1,127,219
—, nickel catalyst made with, 1,165,956
—, ore, aluminum contg., extraction from of, 1,308,429
—, phosphoric acid made with, 1,493,099
—, pigment made with, 1,155,462; Re-14,289; 1,236,655
—, potassium from cement kiln gas with, 1,286,465
—, potassium chloride made with, 1,124,238
—, pyrite, zinc sulfide separated from using, 1,469,042
—, rosaniline, sulfonating of, using, 1,217,462
—, rhyolite ash contg., extraction from of, 1,308,429
—, rhyolite mud contg., extraction from of, 1,308,429
Alkali sulfate, silk, artificial, viscose, precipitation of using, 1,393,197
—, silver, production of using, 1,184,585
—, sodium phosphate (NaH_2PO_4), made with, 1,493,099
—, sodium sulfate made with, 1,323,879
—, sulfur made with, 1,359,114
—, tanning compound made with, 1,147,245
—, titanium dioxide made with, 1,189,229
—, titanium(ic) oxide made with, 1,206,796; 1,206,798
—, titanium(ic) sulfate made with, 1,236,655
—, vanadium compound made with, 1,482,276
—, vanadium sulfate made with, 1,482,276
—, viscose, precipitation of using, 1,143,569
—, wood pulp, sulfite, made with, 1,427,125
—, zeolite, artificial, made with, 1,499,492
—, zinc made with, 1,154,602; 1,184,585
—, zinc sulfide, bornite separated from using, 1,469,042
—, —, chalcopyrite separated from using, 1,469,042
—, —, lead sulfide separated from using, 1,469,042
—, —, pyrite separated from using, 1,469,042
Alkali sulfhydrate, cassiterite, flotation of, using, 1,497,310
—, chalcopyrite, concentration of using, 1,197,590
—, —, flotation of using, 1,197,590
—, copper sulfide ore, concentration of using, 1,197,590
—, —, flotation of using, 1,197,590
—, dyestuff made with, 1,521,206
—, flotation process using, 1,497,310
—, galena, flotation of, using, 1,497,310
—, iron sulfide ore, concentration of using, 1,197,590
—, —, flotation of using, 1,197,590
—, lead ore, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, nickel sulfide ore, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, ore, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, pyrite, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, silver ore, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
—, sphalerite, concentration of using, 1,197,590
—, —, flotation of, using, 1,197,590; 1,497,310
—, wolframite, flotation of, using, 1,497,310
—, zinc ore, concentration of, using, 1,197,590
—, —, flotation of using, 1,197,590
—, zinc sulfide ore, concentration of, using, 1,197,590
—, —, flotation of, using, 1,197,590
Alkali sulfide, alkali bicarbonate made with, 1,138,190
—, alkali carbonate made with, 1,138,190
—, alkali cyanide made with, 1,138,190
—, alkali thiosulfate made with, 1,492,488; 1,492,489
—, aluminum oxide made with, 1,228,119; 1,262,062
—, ammonia made with, 1,156,606

Alkali sulfide, ammonium salts made with, 1,156,606
—, azo-resin made with, 1,500,844
—, battery, electric, contg., 1,316,760
—, bornite, zinc sulfide separated from using, 1,469,042
—, calcium molybdate made with, 1,501,414
—, carbonate ore, flotation of using, 1,505,323; 1,505,324
—, cassiterite, flotation of, using, 1,497,310
—, catalyst phenol-acetone condensed with, 1,397,144
—, —, sulfur dioxide reduced with, 1,359,114
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—, cellulose nitrate compositions screens for, cleaned with, 1,367,111
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—, chaff, treatment of with, 1,472,319; 1,472,320; 1,472,321
—, chalcopyrite, zinc sulfide separated from using, 1,469,042
—, China grass, dyeing with sulfur dyes of using, 1,181,905
—, copper, production of using, 1,156,606; 1,226,190
—, copper carbonate ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper compound made with, 1,228,119
—, copper ore, flotation of using, 1,312,668; 1,505,323; 1,505,324
—, —, sulfidation of with, 1,312,668
—, copper oxide ore, flotation of with, 1,312,668
—, —, sulfidation of with, 1,312,668
—, copper removal of from aluminate solution using, 1,262,062
—, copper salts made with, 1,156,606
—, copper sulfate made with, 1,156,606
—, corn straw, treatment of with, 1,472,319; 1,472,320; 1,472,321
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—, cotton, dyeing with sulfur dyes of using, 1,181,905
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—, dye, sulfur, made with, 1,316,742
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—, fiber, animal, dyeing with sulfur dyes of using, 1,181,905
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—, —, pyroligneous acid for, 1,260,977
—, —, pyrosulfuric acid for, 1,365,050
—, —, shale oil for, 1,365,051
—, —, shale oil, cracked, for, 1,486,646
—, —, sodium acetate for, 1,365,050; 1,365,051
—, —, sodium carbonate for, 1,365,050; 1,365,051; 1,486,646
—, —, sulfuric acid for, 1,260,977; 1,365,050; 1,365,051; 1,365,052; 1,486,646
—, —, sulfuric acid, fuming, for, 1,365,050
—, paint remover made with, 1,184,164
—, varnish remover made with, 1,184,164
Alkyl alcohol, alkyl sulfate made with, 1,399,238
—, mfr. of, alkyl hydrogen sulfate for, 1,486,646
—, —, Burton oil for, 1,486,646
—, —, gasolene for, 1,486,646
—, —, hydrocarbons for, 1,486,647
—, —, hydrocarbon, olefin, for, 1,486,646; 1,486,647
—, —, kerosene for, 1,486,647
—, —, lubricating oil for, 1,486,647
—, —, naphtha for, 1,486,646
—, —, petroleum, cracked, for, 1,486,646; 1,486,647
—, —, process for, 1,486,646; 1,486,647
—, —, shale oil, cracked, for, 1,486,646
—, —, sodium chloride for, 1,486,646
—, —, sodium sulfate for, 1,486,646
—, —, sulfuric acid for, 1,486,646; 1,486,647
—, —, water for, 1,486,646
Alkyl allyl amino alcohol, *p*-aminobenzoic acid, esters of and, 1,476,934
Alkyl amino compounds, aromatic, mfr. of, 1,426,380
b-Alkylamino-ethylaminobenzoic alkyl esters, mfr. of, 1,334,642
(bis-*p*-)-Alkylaminophenylarsenic acids, mfr. of, 1,440,621
(mono)-Alkylaminophenylarsenic acids, mfr. of, 1,440,621
Alkylammonium dithiocarbamates, flotation process for, 1,497,699
Alkyl anilines, producing, 1,429,714
Alkyl aralkyl cellulose, celluloid substitute made with, 1,451,331
—, coating composition made with, 1,451,331
—, filament, artificial, made with, 1,451,331
—, film, motion picture, made with, 1,451,331
—, —, photographic, made with, 1,451,331
—, insulation, electric, made with, 1,451,331
—, mfr. of, process for, 1,451,331
—, varnish made with, 1,451,331
Alkyl-aryl-amines, mfr. of, process for, 1,221,077
Alkyl bromides, alkyl ethers from, 1,459,177
—, carbohydrate ether made with, 1,504,178
—, cellulose ether made with, 1,504,178
—, dextrin ether made with, 1,504,178
—, ethers made with, 1,459,177
—, starch ether made with, 1,504,178

Alkyl cellulose, cellulose ether made with, 1,502,379
—, *see also Cellulose ethers*
Alkyl chlorides, alkyl ethers from, 1,459,177
—, benzine made with, 1,325,299
—, carbohydrate ether made with, 1,504,178
—, catalyst contg., benzine made with, 1,325,299
—, cellulose ether made with, 1,504,178
—, dextrin ether made with, 1,504,178
—, ethers made with, 1,459,177
—, mfr of, hydrocarbon, olefin, for, 1,518,182
—, —, hydrochloric acid for, 1,518,182
—, —, process for, 1,518,182
—, starch ethers made with, 1,350,820; 1,504,178
Alkyl compounds, aliphatic dialkylamino, preparation of, 1,429,922
Alkyl dextrin, see Dextrin ether
Alkyl dithiocarbamates, flotation process for, 1,497,699
Alkylenes, see Hydrocarbon, olefin
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—, mfr. of, 1,388,016
Alkylene oxides, alkylene cyanhydrins from, 1,388,016
—, mfr. of, 1,446,872
—, properties of, 1,446,872
Alkyl esters, cellulose ether made with, 1,188,376
—, mfr. of, acetic acid for, 1,478,498
—, —, acetic anhydride for, 1,478,498
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—, —, acids, aliphatic, for, 1,478,498
—, —, —, aromatic, for, 1,478,498
—, —, alcohols for, 1,478,498
—, —, alcohols, polyhydric, for, 1,478,498
—, —, anhydrides for, 1,478,498
—, —, apparatus for, 1,478,498
—, —, Burton oil for, 1,486,646
—, —, coke for, 1,478,498
—, —, ethers for, 1,478,498
—, —, ethylene for, 1,478,498
—, —, gasolene for, 1,486,646
—, —, hydrochloric acid for, 1,478,498
—, —, hydrocarbon, olefin, for, 1,486,646
—, —, naphtha for, 1,486,646
—, —, nitric acid for, 1,478,498
—, —, nitrogen oxides for, 1,478,498
—, — —, petroleum, cracked, for, 1,486,646
—, —, phthalic anhydride for, 1,478,498
—, —, process for, 1,478,498; 1,486,646
—, —, propylene for, 1,478,498
—, —, propyl ether for, 1,478,498
—, —, shale oil, cracked, for, 1,486,646
—, —, sulfuric acid for, 1,486,646
—, —, sulfur dioxide for, 1,478,498
—, —, sulfur trioxides for, 1,478,498
—, —, zinc chloride for, 1,478,498
—, phthalic anhydride for, 1,478,498
—, starch ethers made with, 1,350,820
—, alkyl hydrogen sulfate made with, 1,484,249
Alkyl ether of cellulose, see Cellulose ether
Alkyl formate, mfr. of, Burton oil for, 1,486,646
—, —, gasolene for, 1,486,646
—, —, hydrocarbon, olefin, for, 1,486,646
—, —, naphtha for, 1,486,646
—, —, petroleum, cracked, for, 1,486,646
Alkyl formate, mfr. of, process for, 1,486,646
—, —, shale oil, cracked, for, 1,486,646
—, —, sulfuric acid for, 1,486,646
Alkyl halide, alcohols made with, 1,253,055
—, alkyl ethers, mixed, mfr. from, 1,459,177
—, carbohydrate ethers made with, 1,488,355
—, cellulose ether made with, 1,188,376; 1,483,738; 1,505,043
—, compound $(C_6H_{10}O_5)_n$, ethers of, made with, 1,488,355
—, dextrin ethers made with, 1,488,355
—, ethers made with, 1,459,177
—, ethyl amine made with, 1,471,213
—, hexamethylenetetramine, condensation product of and, 1,471,213
—, rubber, vulcanization of, accelerator for, made with, 1,471,213
—, starch ethers made with, 1,488,355
—, triethyltrimethylenetriamine made with, 1,471,213
Alkyl hydrogen sulfates, acetates made with, 1,365,050
—, alkyl acetates made with, 1,365,050; 1,486,646
—, alkyl alcohol made with, 1,486,646
—, esters made with, 1,365,050
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—, mfr. of, alcohol for, 1,484,249
—, —, alkyl ether for, 1,484,249
—, —, alkyl sodium sulfate for, 1,484,249
—, —, Burton oil for, 1,486,646
—, —, gasolene for, 1,486,646
—, —, hydrocarbon for, 1,486,647
—, —, hydrocarbon, olefin, for, 1,484,249; 1,486,646; 1,486,647
—, —, kerosene for, 1,486,647
—, —, lubricating oil for, 1,486,647
—, —, naphtha for, 1,486,646
—, —, olefines for, 1,365,050; 1,365,051
—, —, petroleum, cracked, for, 1,486,646; 1,486,647
—, —, process for, 1,484,249; 1,486,646; 1,486,647
—, —, shale oil, cracked, for, 1,486,646
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—, —, sulfuric acid, fuming, for, 1,484,249
—, —, sulfur trioxide for, 1,484,249
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Alkyl iodides, alkyl ethers from, 1,459,177
—, carbohydrate ether made with, 1,504,178
—, cellulose ether made with, 1,504,178
—, dextrin ether made with, 1,504,178
—, ethers made with, 1,459,177
—, starch ether made with, 1,504,178
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Alkyl magnesium halide, alcohol, primary, made with, 1,315,619
Alkyl perchlorate, explosive contg., 1,457,709
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Alkylphenylammonium iodide, dimethyl aniline mfr. with, 1,413,494
Alkyl propionate, cellulose ether solvent contg., 1,473,217
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Alkyl sodium sulfate, alkyl hydrogen sulfate made with, 1,484,249
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Alkyl succinate, cellulose ether contg., 1,473,219
—, ethyl cellulose contg., 1,473,219
Alkyl sulfates, catalyst in celluose acetate mfr., 1,445,382
—, cellulose acetate mfr. with, 1,445,382
—, cellulose ether made with, 1,188,376
—, mfr. of, alkyl alcohol for, 1,399,238
—, —, apparatus for, 1,399,238
—, —, carbon tetrachloride for, 1,399,238
—, —, contact gas for, 1,399,238
—, —, process for, 1,399,238
—, —, sulfuric acid, fuming, for, 1,399,238
—, —, sulfur trioxide for, 1,399,238
—, starch ethers made with, 1,350,820
Alkyl sulfuric acid, alcohols from, 1,412,233
—, formation of, 1,412,233
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—, cellulose acetate plasticizer, 1,353,385
—, dope made with, 1,353,385
—, film made with, 1,353,385
—, mfr. of, ammonia for, 1,353,385
—, —, chlorsulfonic acid for, 1,353,385
—, —, process for, 1,353,385
—, —, toluene for, 1,353,385
—, —, toluene sulfochlorides for, 1,353,385
—, —, toluenesulfonamide for, 1,353,385
—, silk, artificial, made with, 1,353,385
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—, cellulose acetate plasticizer, 1,501,206
—, dope made with, 1,501,206
—, film made with, 1,501,206
—, mfr. of, ammonia for, 1,501,206
—, —, chlorsulfonic acid for, 1,501,206
—, —, dimethyl sulfate for, 1,501,206
—, —, ethylamine for, 1,501,206
—, —, ethyl sulfuric acid for, 1,501,206
—, —, methylamine for, 1,501,206
—, —, process for, 1,501,206
—, —, toluene for, 1,501,206
—, silk, artificial, made with, 1,501,206
N-Alkyl-*p*-toluenesulfonamides, celluloid substitute made with, 1,501,206
—, cellulose acetate plasticizer, 1,501,206
—, dope made with, 1,501,206
—, film made with, 1,501,206
—, mfr. of, ammonia for, 1,501,206
—, —, chlorsulfonic acid for, 1,501,206
—, —, dimethyl sulfate for, 1,501,206
—, —, ethylamine for, 1,501,206
—, —, ethyl sulfuric acid for, 1,501,206
—, —, methylamine for, 1,501,206
—, —, process for, 1,501,206
—, —, toluene for, 1,501,206
—, silk, artificial, made with, 1,501,206
N-Alkyl-xylenesulfonamides, celluloid substitute made with, 1,353,384; 1,353,385
—, cellulose acetate plasticizer, 1,501,206
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—, dope made with, 1,353,384; 1,353,385
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—, —, ethylamine for, 1,353,384; 1,353,385; 1,501,206
—, —, methylamine for, 1,353,384; 1,353,385; 1,501,206
—, —, process for, 1,353,384; 1,353,385; 1,501,206
—, —, xylene for, 1,353,384; 1,353,385; 1,501,206
—, —, *m*-xylene for, 1,353,384; 1,353,385
—, —, *o*-xylene for, 1,353,384; 1,353,385
—, —, *p*-xylene for, 1,353,384; 1,353,385
—, —, xylene-sulfochlorides for, 1,353,384; 1,353,385
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Allene, isoprene made with, 1,218,332
—, rubber, synthetic, made with, 1,218,332
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Allium, see Garlic
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Allocain A, mfr. of, alkali carbonate for, 1,399,312
—, —, benzoic anhydride for, 1,399,312
—, —, benzoyl chloride for, 1,399,312
—, —, ethyl bromide for, 1,399,312
—, —, ethyl halide for, 1,399,312
—, —, ethyl iodide for, 1,399,312
—, —, hydrochloric acid for, 1,399,312
—, —, *N*-ethyl-mydriatin for, 1,399,312
—, —, mydriatin for, 1,399,312
—, —, mydriatin chloride for, 1,399,312
—, —, mydriatin sulfate for, 1,399,312
—, —, process for, 1,399,312
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Allocain S, mfr. of, alkali carbonate for, 1,399,312
—, —, benzoic anhydride for, 1,399,312
—, —, benzoyl chloride for, 1,399,312
—, —, *N.N*-diethyl-mydriatin for, 1,399,312
—, —, ethyl bromide for, 1,399,312
—, —, ethyl halide for, 1,399,312
—, —, ethyl iodide for, 1,399,312
—, —, hydrochloric acid for, 1,399,312
—, —, mydriatin for, 1,399,312
—, —, mydriatin chloride for, 1,399,312
—, —, mydriatin sulfate for, 1,399,312
—, —, process for, 1,399,312
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—, —, iron-silicon, mfr. of, 1,444,891
—, —, mfr. of, process for, 1,314,417
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—, —, carbon in, 1,375,672; 1,375,673
—, —, chromium in, 1,375,672; 1,375,673
—, —, formula for, 1,350,166; 1,351,811

Alloy, acid resistant, formula, chromium 40, carbon 105, molybdenum 4-6, manganese, iron, 1,375,081
—, —, —, chromium 60, iron 39.7-39.2, carbon 0.3-0.8, 1,333,706
—, —, —, silicon 2-4, carbon 2-5, balance iron, 1,375,672
—, —, —, copper 73-76, nickel 17.5-20, tin 3.5-2-5, lead 6-1.5, 1,442,742
—, —, —, nickel, molybdenum, iron, silicon, manganese, magnesium, vanadium and/or cobalt, 1,375,082; 1,375,083
—, —, iron in, 1,375,672; 1,375,673
—, —, lead-thallium, 1,384,056
—, —, mfr. of, 1,375,672; 1,375,673
—, —, silicon in, 1,375,672
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—, airplane motors made with, 1,300,058
—, airplane propeller made with, 1,343,191
—, alkali bicarbonate, treatment with of, 1,471,751
—, alkali carbonate, treatment with of, 1,471,751
—, alkali earth bicarbonate, treatment with of, 1,471,751
—, alkali earth hydroxide, treatment with of, 1,471,751
—, alkali earth metals in, Re-15,407 (1,412,280); 1,123,685; 1,158,672; 1,169,392; 1,359,813; 1,500,954
—, alkali hydroxide, treatment with of, 1,471,751
—, alkali metal in, 1,123,685; 1,500,954
—, alloy, coating of with, 1,281,108
—, *alloying mfr. of, see Iron, rust-proof, mfr. of; Steel rust-proof, mfr. of*
—, aluminum in, Re-15,407 (1,412,280); 1,126,484; 1,128,726; 1,130,785; 1,132,376; 1,134,788; 1,136,670; 1,146,185; 1,147,398; 1,151,160; 1,156,093; 1,158,671; 1,162,226; 1,164,997; 1,165,448; 1,168,962; 1,171,856; 1,180,996; 1,194,101; 1,196,118; 1,203,180; 1,203,555; 1,212,374; 1,217,578; 1,224,362; 1,227,569; 1,239,854; 1,247,977; 1,248,648; 1,258,261; 1,261,987; 1,264,459; 1,267,669; 1,273,146; 1,273,762; 1,273,877; 1,276,916; 1,277,046; 1,278,304; 1,280,706; 1,305,166; 1,305,300; 1,319,537; 1,341,774; 1,344,165; 1,346,190; 1,371,214; 1,376,056; 1,376,062; 1,376,339; 1,382,147; 1,421,471; 1,422,591; 1,439,865; 1,449,052; 1,453,928; 1,468,828; 1,472,738; 1,472,739; 1,472,740; 1,480,779; 1,480,846; 1,481,782; 1,483,327; 1,485,158; 1,490,696; 1,492,282; 1,493,191; 1,496,269; 1,508,032; 1,509,608; 1,510,242; 1,513,806; 1,514,064
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—, —, calcium in, 1,412,280
—, —, castings made with, 1,293,426
—, —, chromium, mfr. of, 1,453,254
—, —, copper in, 1,318,702
—, —, copper, iron, mfr. of, 1,453,254
—, —, formula for, 1,449,052
—, —, formula, aluminum 96-98; tin 3 3/4-1 11/16, phosphorus 3/4-3/16, 1,254,854
—, —, hardness increased of, process for, 1,326,775
—, —, iron, coating of using, 1,171,856
Alloy, aluminum, lead and magnesium in, 1,385,223
—, —, mfr. of, 1,300,058; 1,452,232; 1,453,928
—, —, —, copper in, 1,305,551
—, —, —, electrolytic method for, 1,293,426
—, —, —, iron in, 1,305,551
—, —, —, magnesium in, 1,310,309; 1,310,310
—, —, —, manganese in, 1,305,551
—, —, —, nickel in, 1,305,551
—, —, —, process for, 1,305,551; 1,310,309; 1,310,310; 1,318,702; 1,453,245
—, —, —, uranium in, 1,310,309; 1,310,310
—, —, melting of scrap, 1,292,582
—, —, molybdenum, mfr. of, 1,453,254
—, —, nickel, copper, manganese and iron, mfr. of, 1,305,551
—, —, nickel and copper, mfr. of, 1,305,551
—, —, phosphorus in, 1,254,854
—, —, steel, coating of using, 1,171,856
—, —, steel and iron united in bath of, 1,455,307
—, —, tin in, 1,254,854
—, —, titanium in, 1,318,702
—, —, uranium in, 1,304,224
—, —, vanadium in, 1,318,702
—, —, waterpurifying apparatus electrode contg., 1,446,029
—, —, zinc in, 1,318,702
—, —, *see also Electron metal; Ferro-aluminum*
—, aluminum-barium, nitrogen oxide mfr. with electrode of, 1,266,717
—, aluminum-beryllium, mfr. of, 1,254,987; 1,266,717; 1,359,813
—, aluminum bronze, mfr. of, 1,300,058
—, aluminum-caesium, nitrogen oxide mfr. with, electrode of, 1,266,717
—, aluminum-calcium, nitrogen oxide mfr. with electrodes of, 1,266,717
—, aluminum-cerium, nitrogen oxides mfr. with electrode of, 1,266,717
—, aluminum coated with, mfr. of, apparatus for, 1,172,160
—, —, —, hydrochloric acid for, 1,172,160
—, —, —, hydrofluoric acid for, 1,172,160
—, —, —, hydrogen dioxide for, 1,172,160
—, —, —, potassium hydroxide for, 1,172,160
—, —, —, process for, 1,172,160
—, —, —, sodium bicarbonate for, 1,172,160
—, —, —, sodium hydroxide for, 1,172,160
—, aluminum-copper, 1,387,900
—, —, formation of, 1,346,062
—, —, formula, aluminum 98, copper 2; 1,326,775
—, —, mfr. of, 1,305,300; 1,453,254
—, aluminum-copper-calcium, preparing, 1,359,813
—, aluminum-copper-zinc, mfr. of, 1,305,300
—, aluminum-iron, explosive contg., 1,410,868
—, —, formation of, 1,346,062
—, —, magnetic properties of, improving, 1,358,810
—, —, mfr. of, 1,396,276
—, aluminum-lanthanum, nitrogen oxides mfr. with electrode of, 1,266,717
—, aluminum lithium, nitrogen oxide mfr. with electrode of, 1,266,717
—, aluminum-magnesium, explosive contg., 1,410,868

Alloy, aluminum-magnesium-sodium, formation of, 1,457,225
—, —, mfr. of, 1,305,166; 1,359,813
—, —, —, process for, 1,258,261
—, —, —, vanadium in, 1,305,166
—, —, metal scavenged with, 1,460,830
—, aluminum-magnesium-vanadium, mfr. of, 1,305,166
—, aluminum-manganese, mfr. of, 1,453,254
—, aluminum-manganese-silicon, explosive contg., 1,410,868
—, aluminum-manganese-zinc, 1,358,147
—, aluminum-monel metal, mfr. of, 1,305,551
—, aluminum-nickel, hardness curve for, 1,278,304
—, —, mfr. of, 1,453,254
—, aluminum-nickel-silicon, hardness curve for, 1,278,304
—, —, mfr. of, 1,461,178
—, aluminum-rubidium, nitrogen oxides mfr. with electrodes of, 1,266,717
—, aluminum-silicon, alkali metals in, 1,410,461
—, —, explosive contg., 1,410,868
—, —, iron improved by addition of, 1,396,276
—, —, mfr. of, 1,396,276; 1,410,461
—, —, nitrogen oxides mfr. with electrodes of, 1,266,717
—, —, producing, 1,464,625
—, —, properties of, 1,310,466
—, —, purifying, fluorides for, 1,387,900
—, aluminum soldered using a flux of, 1,483,327
—, aluminum soldering, formula, zinc 49, tin 40, lead 10, white metal 1 (tin 80-90, antimony 5-15, copper 3-10%), 1,344,566
—, aluminum-strontium, nitrogen oxides mfr. with electrodes of, 1,266,717
—, aluminum-thorium, nitrogen oxides mfr. with electrodes of, 1,266,717
—, aluminum-vanadium, mfr. of, 1,305,166
—, aluminum yttrium, nitrogen oxides mfr. with electrodes of, 1,266,717
—, aluminum-zinc, aluminum chloride from, 1,455,005
—, —, formula, aluminum 85, zinc 15, 1,326,775
—, aluminum-zinc-magnesium, mfr. of, 1,458,290
—, aniline, made using heating bath of, 1,213,143
—, antifriction, formula, lead 79, antimony 12, tin 6, copper 2.5, phosphorous 0.5, 1,359,194
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—, antimony in, 1,124,302; 1,158,671; 1,158,672; 1,158,673; 1,158,674; 1,158,675; 1,168,962; 1,194,101; 1,195,376; 1,203,991; 1,239,785; 1,239,854; 1,247,977; 1,269,000; 1,280,908; 1,280,909; 1,286,921; 1,328,694; 1,421,471; 1,422,591; 1,425,330; 1,453,928; 1,468,407; 1,475,503; 1,497,011; 1,502,321; 1,502,425; 1,512,190; 1,513,806
—, antimony 3, aluminum 2.5, ferromanganese and iron 18, 1,421,471
—, antimony, formula contg., 1,452,750
—, —, iron, coating of using, 1,161,944; 1,168,663; 1,168,664
—, —, steel, coating of using, 1,161,944; 1,168,663; 1,168,664
—, antimony-lead, iron coated with, 1,378,439
—, antimony sulfide in, 1,138,845
—, arsenic in, 1,340,437; 1,359,064; 1,453,928
Alloy, arsenic, separation of from, apparatus for, 1,283,427
—, —, —, calcium carbonate for, 1,283,427
—, —, —, charcoal for, 1,283,427
—, —, —, coke for, 1,283,427
—, —, —, iron for, 1,283,427
—, —, —, lime for, 1,283,427
—, —, —, limestone for, 1,283,427
—, —, —, process for, 1,283,427
—, —, substitute for phosphorous copper, 1,340,437
—, arsenious acid for slagging, 1,356,178
—, arsine produced by, 1,388,279
—, asbestos cement slate coated with, process for, 1,258,282
—, asbestos composition coated with, process for, 1,258,282
—, automobile radiators coated with, 1,428,638
—, barium in, 1,142,220; 1,158,672; 1,158,674; 1,169,392; 1,492,282; 1,500,954
—, barium-lead, preparing, 1,359,813
—, barium-lead-calcium, preparing, 1,359,813
—, barium-lead group metals in, 1,320,192
—, barium-lead-magnesium, preparing, 1,359,813
—, barium-lead-manganese, preparing, 1,359,813
—, battery, storage, negative plate for made with, 1,475,503
—, bearing antifriction, made with, 1,494,099
—, bearing metal made with, 1,198,152
—, beryllium in, 1,493,191
—, beryllium-aluminum, mfr. of, 1,254,987; 1,359,813
—, bismuth in, 1,126,646; 1,164,997; 1,194,101; 1,239,854; 1,324,763; 1,421,471; 1,453,928; 1,483,327; 1,497,011; 1,502,425; 1,513,806
—, bismuth, airplane propeller made with, 1,343,191
—, —, fire detecting wire made with, 1,235,028
—, —, formula contg., 1,452,750
—, —, hollow article made with, 1,135,962; 1,343,191
—, —, lead, tin, rubber vulcanized by immersion in, 1,368,071
—, —, molded article made with, 1,377,517
—, —, molded article, hollow, made with, 1,343,191; 1,504,547
—, —, phenol aldehyde condensate article made with, 1,377,517
—, —, printing plate made with, 1,377,517
—, —, *see also Bismuth-cadmium amalgam*
—, boron in, 1,126,629; 1,169,536; 1,203,180; 1,203,555; 1,489,116; 1,490,696; 1,493,191; 1,509,624
—, boron-copper-calcium, preparing, 1,359,813
—, brass in, 1,468,828
—, brick coated with, process for, 1,258,282
—, brush, electric, made with, 1,202,818; 1,281,716
—, cadmium in, 1,133,019; 1,146,185; 1,191,890; 1,341,774; 1,346,190
—, cadmium, fire detecting wire made with, 1,235,028
—, —, formula contg., 1,452,750
—, —, hollow article molded with, 1,135,962
—, —, mfr. of, process for, 1,252,887
—, —, molded article made with, 1,377,517;

Alloy, cadmium, phenol aldehyde condensate article made with, 1,377,517
—, —, printing plate made with, 1,377,517
—, —, *see also Bismuth-cadmium amalgam*
—, cadmium-copper, mfr. of, process for, 1,307,642
—, —, properties of, 1,307,642
—, cadmium-zinc-aluminum, aluminum chloride from, 1,455,005
—, calcium in, Re-15,407 (1,412,280); 1,142,220; 1,158,671; 1,169,392; 1,322,158; 1,341,774; 1,423,338; 1,472,738; 1,224,362; 1,490,696; 1,492,282; 1,493,191; 1,500,954
—, calcium alloy, 1,490,696
—, calcium-aluminum-copper, preparing 1,359,813
—, calcium-copper-boron, preparing, 1,359,813
—, calcium cupride in, 1,500,954
—, calcium-lead, chloride reduced by, 1,388,086
—, —, preparing, 1,359,813
—, calcium-lead-magnesium, preparing, 1,359,813
—, calcium-magnesium, composition of, 1,322,158
—, calcium-magnesium group metals in, 1,320,192
—, calcium-silicon, properties of, 1,310,466
—, calcium vanadate in, 1,423,338
—, carbon in, 1,126,629; 1,162,186; 1,166,342; 1,187,411; 1,187,412; 1,244,742; 1,245,552; 1,247,206; 1,252,038; 1,252,596; 1,268,495; 1,273,877; 1,279,828; 1,282,981; 1,287,153; 1,313,291; 1,322,511; 1,346,187; 1,346,188; 1,346,189; 1,357,549; 1,357,550; 1,376,056; 1,376,062; 1,421,776; 1,461,643; 1,464,312; 1,468,937; 1,473,208; 1,475,942; 1,483,298; 1,485,635; 1,489,116; 1,489,243; 1,493,191; 1,495,504; 1,504,338; 1,508,032; 1,513,793; 1,513,806; 1,514,064; 1,520,033
—, case hardening boxes made of, 1,455,651
—, casting of, apparatus for, 1,245,687
—, —, carbon for, 1,172,506
—, —, graphite mold for, 1,172,506
—, —, graphite and sand mold for, 1,172,506
—, —, iron mold for, 1,172,506
—, —, process for, 1,172,506; 1,245,687
—, —, sand mold for, 1,172,506
—, catalyst, hexamethylenetetramine made with, 1,408,826
—, —, mfr. of, fat for, 1,257,396
—, —, —, oil for, 1,257,396
—, —, —, process for, 1,257,396; 1,257,397; 1,257,531
—, —, —, water for, 1,257,397
—, cement, composition contg., coated with process for, 1,258,282
—, cerium in, mfr. of, barium chloride for, 1,290,010; 1,290,011
—, —, —, kerosene for, 1,290,010; 1,290,011;
—, —, —, potassium chloride for, 1,290,010; 1,290,011
—, —, —, process for, 1,290,010; 1,290,011
—, —, —, sodium chloride for, 1,290,010; 1,290,011
—, chemically resistant, formula for, 1,357,550
—, chromium in, 1,150,113; 1,166,342; 1,166,866; 1,167,827; 1,168,074; 1,175,724; 1,181,570; 1,203,180; 1,203,555; 1,221,769; 1,241,971; 1,245,552; 1,248,621; 1,251,341; 1,252,596; 1,261,987; 1,270,519; 1,270,520; 1,273,762; 1,273,877; 1,274,395; 1,277,046; 1,278,304; 1,279,828; 1,292,981; 1,287,153; 1,313,291; 1,322,511; 1,346,187; 1,346,188; 1,346,189; 1,346,190; 1,346,,191; 1,357,549; 1,357,550; 1,371,214; 1,376,056; 1,376,062; 1,421,776; 1,449,338; 1,464,312; 1,468,937; 1,472,738; 1,472,739; 1,472,740; 1,473,208; 1,475,942; 1,480,779; 1,483,298; 1,485,158; 1,485,635; 1,489,243; 1,493,191; 1,495,504; 1,504,338; 1,508,032; 1,513,793; 1,513,806; 1,514,064; 1,520,033
Alloy, chromium, aluminum, mfr. of, 1,453,254
—, —, brass, crucible for melting of, made with, 1,241,971
—, —, copper, crusible for melting of, made with, 1,241,971
—, —, heat insulator, 1,301,675
—, —, mfr. of, 1,346,187
—, —, resistance of, 1,274,250
—, —, sodium cyanide furnace made of, 1,321,892
—, —, vault, burglar proof, made with, 1,482,480
—, —, *see also Ferro-chromium, Nichrome*
—, chromium 1-10%, mangnese 1-10%, nickel balance, 1,274,395
—, chromium-cobalt, electrodeposition of, 1,465,173
—, —, heat insulator, 1,301,675
—, chromium group metal in, 1,513,806
—, chrominum group metal-iron, forming by pressure, 1,359,353
—, chromium-iron, preparing, 1,365,499
—, —, sheets of, mfr. of, 1,454,464
—, chromium-molybdenum, preparing, 1,365,499
—, chromium-nickel, furnace for sodium cyanide mfr. made of, 1,307,362
—, —, heat insulator, 1,301,675
—, —, preparing, 1,365,499
—, —, *see Nickel-chromium alloy*
—, chromium-steel, formula, carbon-1.15%, chromium 20-60%, 1,333,654
—, chromium-tungsten, preparing, 1,365,499
—, clay as, 1,381,771
—, cleaning of, apparatus for, 1,513,989
—, —, boric acid for, 1,513,989
—, —, process for, 1,513,989
—, —, steam for, 1,513,989
—, coating of, alkali silicate for, 1,281,108
—, —, alloy for, 1,281,108
—, —, carbon dioxide for, 1,281,108
—, —, metal for, 1,281,108
—, —, process for, 1,281,108
—, —, sodium silicate for, 1,281,108
—, cobalt in, 1,150,113; 1,151,160; 1,162,186; 1,166,342; 1,203,180; 1,203,555; 1,221,769; 1,277,569; 1,229,037; 1,241,971; 1,247,206; 1,248,621; 1,248,648; 1,257,272; 1,270,519; 1,270,520; 1,273,762; 1,277,046; 1,278,304; 1,322,511; 1,342,993; 1,346,188; 1,346,189; 1,346,190; 1,346,191; 1,357,549; 1,357,550; 1,376,056; 1,376,062; 1,449,338; 1,473,208; 1,483,298; 1,489,116; 1,489,243; 1,493,191; 1,495,504; 1,504,338; 1,514,064; 1,520,033
—, cobalt, brass, crucible for melting of, made with, 1,241,971

Alloy, cobalt, copper, crucible for melting of, made with, 1,241,971
—, —, heat insulator, 1,301,675
—, —, magnetic properties of, 1,277,524
—, cobalt-aluminum, mfr. of, 453,254
—, cobalt-chromium, electrodeposition of, 1,465,173
—, —, heat insulator, 1,301,675
—, cobalt-magnesium, nickel-chromium-iron alloy deoxidized with, 1,437,405
—, colloidal solutions made with, 1,514,737
—, columbium in, 1,151,160; 1,248,621; 1,248,648; 1,445,253
—, columbium-nickel, preparing, 1,355,532
—, composition, chromium 5-2.0%, nickel 25-1.0%, iron balance, 1,291,220
—, conductor, electric, made with, 1,281,716
—, constituents separated in, process for, 1,452,813
—, copper in, Re-15,407 (1,412,280); 1,124,302; 1,126,484; 1,126,629; 1,127,624; 1,130,678; 1,130,785; 1,134,788; 1,138,845; 1,146,185; 1,147,398; 1,149,850; 1,151,744; 1,156,093; 1,158,671; 1,158,672; 1,158,673; 1,158,674; 1,158,675; 1,162,226; 1,164,997; 1,165,448; 1,166,342; 1,168,074; 1,168,962; 1,169,536; 1,171,066; 1,171,856; 1,175,655; 1,175,724; 1,180,996; 1,187,411; 1,191,890; 1,199,200; 1,203,180; 1,203,555; 1,212,374; 1,217,578; 1,227,569; 1,228,017; 1,229,037; 1,239,785; 1,244,742; 1,245,552; 1,247,206; 1,247,977; 1,248,924; 1,258,261; 1,258,886; 1,261,987; 1,264,459; 1,265,150; 1,267,669; 1,273,146; 1,276,916; 1,277,989; 1,279,448; 1,280,706; 1,285,231; 1,286,921; 1,305,300; 1,310,363; 1,313,291; 1,314,417; 1,319,537; 1,321,063; 1,324,763; 1,328,694; 1,341,774; 1,344,165; 1,346,190; 1,359,064; 1,363,564; Re-15,208; 1,371,214; 1,375,804; 1,376,656; 1,377,089; 1,421,471; 1,422,591; 1,439,865; 1,449,052; 1,468,828; 1,468,937; 1,469,191; 1,472,738; 1,472,739; 1,472,740; 1,480,846; 1,481,782; 1,483,327; 1,485,158; 1,490,696; 1,491,913; 1,493,191; 1,496,269; 1,500,954; 1,502,321; 1,502,425; 1,509,608; 1,510,242; 1,510,541; 1,512,190
—, copper, aluminum iron, mfr. of, 1,453,254
—, —, brass, manganese in, made with, 1,214,539
—, —, bronze, manganese in, made with, 1,214,539
—, —, copper alloy, manganese in, made with, 1,214,539
—, —, gold, palladium and platinum, 1,449,154
—, —, hardness increased of, process for, 1,326,775
—, —, iron, coating of using, 1,171,856
—, —, —, nickel, silicon and zinc in, 1,360,773
—, —, iron coated with, made with, 1,244,414
—, —, magnesium and silicon, mfr. of, 1,310,449
—, —, manganese, brass contg., made with, 1,214,539
—, —, —, bronze contg., made with, 1,214,539
—, —, —, copper alloy contg., made with, 1,214,539
—, —, —, process for, 1,268,849; 1,452,232
—, —, metal coated with, made with, 1,244,414
Alloy, copper, nickel, chromium, thermo-couple made with, 1,393,375
—, —, steel, coating of using, 1,171,856; 1,244,414
—, —, *see also Aluminum bronze; Copper amalgam; Cupro-titanium; Phosphor-bronze; Phosphor-copper*
—, copper 85, nickel 15, bullet jacketed with, 1,357,865
—, copper-aluminum, 1,387,900
—, —, formation of, 1,346,062
—, copper-aluminum-calcium, preparing, 1,359,813
—, copper article, hollow, made with, 1,250,802
—, copper-bearing, dissolving, chlorine and copper chloride for, 1,353,773
—, copper-cadmium, effect of tin on, 1,307,642
—, —, effect of zinc on, 1,307,642
—, —, mfr. of, process for, 1,307,642
—, —, properties of, 1,307,642
—, copper-calcium-boron, preparing, 1,359,813
—, copper-iron, mfr. of, 1,455,589
—, —, —, process for, 1,259,261; 1,310,449
—, copper-manganese-silver, catalyst in ammonia oxidation, 1,357,000
—, *copper-nickel, see Copper-nickel alloy*
—, copper-nickel-iron, mfr. of, 1,455,589
—, copper-phosphorus, mfr. of, apparatus for, 1,315,208
—, copper-silver, catalyst, 1,383,059
—, *copper-sodium, see Copper-sodium couple*
—, copper-strontium, mfr. of, process for, 1,258,886
—, copper-tin-zinc, aluminum in, 1,446,332
—, —, arsenic in, 1,446,332
—, —, boron in, 1,446,332
—, —, cobalt in, 1,446,332
—, —, iron and steel united in bath of molten, 1,455,307
—, —, magnesium in, 1,446,332
—, —, manganese in, 1,446,332
—, —, mfr. of, 1,446,332
—, —, molybdenum in, 1,446,332
—, —, nickel in, 1,446,332
—, —, phosphorus in, 1,446,332
—, —, potassium in, 1,446,332
—, —, silicon in, 1,446,332
—, —, titanium in, 1,446,332
—, —, tungsten in, 1,446,332
—, —, uranium in, 1,446,332
—, —, vanadium in, 1,446,332
—, —, zirconium in, 1,446,332
—, copper-zinc, 1,457,289
—, —, iron united with copper alloys by, 1,359,719
—, —, *see also Copper-zinc couple*
—, corrosion resistant, mfr. of, process for, 1,504,338
—, corrosium resisting, iron contg., over 0.5% copper, 1,341,992
—, crucible, graphite, made with, 1,374,909; 1,374,910
—, —, clay made with, 1,374,910
—, cupro-nickel, separating nickel from, 1,377,713
—, cutting tool, formula, nickel zirconium, aluminum, silicon, 1,350,359

Alloy, cylinders of, chlorination apparatus made with, 1,141,266
—, —, cooling apparatus made with, 1,141,266
—, —, distillation, fractional, apparatus made with, 1,141,266
—, —, gas, absorption of, apparatus made with, 1,141,266
—, —, —, treatment of, apparatus made with, 1,141,266
—, —, —, washing of, apparatus made with, 1,141,266
—, —, hydrogenation apparatus made with, 1,141,266
—, cylinder walls, scored, repaired with, 1,404,001
—, decomposing electrolytically, process for, 1,452,813
—, decopperizing ordnance with, 1,366,167
—, dental, amalgam made of, 1,278,744
—, —, chromium nickel steel as, 1,421,776
—, —, copper in, 1,278,744
—, —, formula, gold plate (22K) 72 grains, nickel 13½ grains, copper 16½ grains, platinum 2 grains, 1,376,656
—, —, purification of, apparatus for, 1,278,744
—, —, —, ethyl alcohol for, 1,278,744
—, —, —, hydrochloric acid for, 1,278,744
—, —, —, methyl alcohol for, 1,278,744
—, —, —, process for, 1,278,744
—, —, silver in, 1,278,744
—, —, tin in, 1,278,744
—, —, zinc in, 1,278,744
—, dental implements, sterilizing of using, 1,246,899
—, degasifying of, alkali earth metal for, 1,478,062
—, —, barium for, 1,478,062
—, —, calcium for, 1,478,062
—, —, magnesium for, 1,478,062
—, —, process for, 1,478,062
—, —, strontium for, 1,478,062
—, de-oxidizing, manganese,-titanium for, 1,350,166
—, didymium in, mfr. of, process for, 1,290,010; 1,290,011
—, dissolving, mercury for, 1,406,730
—, distilling, process of, 1,422,475
—, electrical, silver 9, nickel 1, 1,362,455
—, electrical contact, silver lead, 1,358,908
—, —, silver-uranium in, 1,436,844
—, electrical heating element, mfr. of, 1,460,048
—, electrical resistance, formula, chromium 30-60%, copper-30-60%, tungsten 2-5%, molybdenum 1-3%, 1,375,454
—, —, —, chromium 95%, tungsten 4%, aluminum 1%, 1,375,455
—, —, —, nickel over 50%, cobalt 1½%, titanium, 1,337,276
—, —, —, nickel, iron, silicon, manganese, magnesium, vanadium and/or cobalt, 1,375,082; 1,375,083
—, —, mfr. of, 1,464,312
—, electric welding, formula for, iron 98.97, carbon 0.16, manganese 0.55, vanadium 0.25, phosphorous 0.03, sulfur 0.03, silicon 0.01, 1,350,317
Alloy, erbium in, mfr. of, process for, 1,290,010, 1,290,011
—, eutectic, electrical circuit protective device made with, 1,501,018
—, explosive made with, 1,357,865
—, felt coated with, process for, 1,258,282
—, ferro-chromium in, 1,273,877
—, ferro-chromium, mfr. of, 1,430,878
—, ferro-manganese in, 1,421,471
—, ferro-nickel in, 1,313,291
—, ferro-silico-magnesium, mfr. of, 1,376,113
—, ferro-silicon in, 1,382,147
—, fiber, coating of, with, 1,281,108
—, fiber sheet made with, 1,215,064
—, filament, artificial, spinneret for, made with, 1,492,594
—, filter made with, 1,193,335
—, fire-arm, formula for, 1,346,189; 1,346,190; 1,346,191
—, —, producing, formulas for, 1,346,188
—, formula, aluminum 35% up, beryllium less than 65%, 1,333,965
—, —, aluminum, copper, magnesium, manganese, calcium, 1,412,280
—, —, aluminum 94.25, copper 5, tin .38, silicon .30, 1,300,058
—, —, aluminum 88-90%, copper 12-10%, titanium 0.10%, 1,352,322
—, —, aluminum 80-100, copper 8-17, tungsten, 1,350,891
—, —, aluminum 91½, copper 6½, zinc, 2, 1,305,300
—, —, aluminum 78, copper 4, zinc 8, manganese .05, iron .07, 1,280,706
—, —, aluminum 7-12%, iron 3-5%, copper balance, 1,264,459
—, —, aluminum 1, lead 1, tin 2, zinc 2, bismuth 1, antimony 1, 1,194,101
—, —, aluminum and magnesium, 1,329,312
—, —, aluminum 94%, magnesium 0.5%, chromium, manganese, copper balance, 1,371,214
—, —, aluminum, magnesium, ferro-silicon, zirconium, 1,382,147
—, —, —, —, uranium, 1,415,733
—, —, —, —, —, ferro-silicon, iron, 1,382,146
—, —, aluminum (over 90%), manganese, magnesium, copper and chromium, 1,365,178
—, —, aluminum 0.5-6%, manganese 0.25-2%, zinc 92-99.25%, 1,358,147
—, —, aluminum 80-92%, silicon 8-20%, 1,387,900
—, —, aluminum 8.36, silicon, 3.80, zirconium 6.84, nickel 81.00, 1,278,304
—, —, aluminum 82, silver 1, copper 12, cadmium, 1,146,185
—, —, aluminum 100, tin 12,05, antimony 0.20, phosphorous 0.09, copper 7.50, magnesium 0.06, sodium carbonate (or potash) 0.06, sulfur 0.04, 1,422,591
—, —, aluminum 16, zinc 84, 1,417,348
—, —, aluminum, zinc, copper, 1,350,893
—, —, aluminum 28, zinc 36.5, copper 1.5-2.5, 1,344,165
—, —, aluminum 72, zinc 24-25, copper 3, 1,293,426
—, —, aluminum 72.5-93.5%, zinc 4-25%, copper 2-5%, iron 0.5-1.8%, magnesium 1,352,271; 1,352,272

Alloy, formula, antimony, arsenic, boron, 1,338,279
—, —, antimony 10-13%, lead balance, 1,280,908; 1,280,909
—, —, bismuth, lead, tin, cadmium, 1,377,517
—, —, carbon 2-5, cobalt 35-65, chromium and tungsten, 1,376,056
—, —, chromium 20-60%, carbon 1-1.5%, iron balance, 1,333,654
—, —, chromium, iron, molybdenum, group metal, carbon, silicon, 1,357,550
—, —, —, —, silicon, aluminum (vanadium, carbon), 1,400,527
—, —, chromium 10-45, manganese 3-25, carbon 0-3, silicon 0-3%, iron balance, 1,333,151
—, —, chromium 18, manganese 2½, silicon 0.3, carbon 0.2, iron 79, 1,475,942
—, —, chromium 9-20%, nickel 0.5%-3%, copper 0.20-2%, molybdenum 0.5-2%, vanadium 0.25-2%, silicon 0.5-2.5%, iron balance, 1,441,479
—, —, chromium 18, nickel 2.5, silicon 2, manganese 1.5, iron and carbon balance, 1,424,782
—, —, chromium 10-35%, silicon 3-7%, aluminum 3-20%, nickel balance, 1,273,877
—, —, chromium 20-35, tungsten 5-20, iron 1-15, cobalt and carbon, 1,376,062
—, —, cobalt 75%, molybdenum 20%, tin 5%, 1,434,246
—, —, cobalt 20-30, nickel 80-70, manganese, 1,342,993
—, —, copper, 86-88, aluminum 14-12, 1,267,669
—, —, copper 80, aluminum 10, molybdenum 5, tungsten 5, 1,319,537
—, —, copper 75-95%, aluminum 7-12%, nickel 2-7%, iron 1-6%, 1,369,818
—, —, copper, iron, tungsten nickel, 1,351,811
—, —, copper 60-85, lead 1-36, antimony 3-20, phosphorous 0.25-3.0, 1,286,921
—, —, copper 80, lead 20, phosphorous 0.2, 1,285,231
—, —, copper 2.500, manganese-copper 1.250, tin 6.0, antimony, 0.1652, magnesium 0.0375, potash 0.375, sulfur 0.0125, aluminum, 10.0, 1,422,591
—, —, copper 25-40%, nickel 20-40%, chromium 6-12%, iron 25-40%, aluminum 0.5-1%, 1,389,446
—, —, copper 50-60, nickel 26-34, iron 4-8, zinc 7-11, deoxidizing agent, 0.25-5%, 1,350,166
—, —, copper 60-70%, nickel 6-9%, iron 4-6%, zinc 12-16%, lead 2-3%, phosphorous trace, 1,277,989
—, —, copper 50-60%, nickel 26-34, iron 4-8, zinc 7-11, and/or tungsten, chromium, 1,338,517; 1,338,518
—, —, copper 42-52%, nickel 22-28%, lead 22-30%, 1,351,673
—, —, copper 45-55, nickel 29-35, lead 1-3, zinc 5-9, iron 4-8, silicon trace, 0.30, 1,377,089
—, —, copper 40-55, nickel 3-15, manganese 1-3, iron 1-2, aluminum 0.5-3, zinc 25-40, 1,457,289
—, —, copper 73-76, nickel 17.5-20, tin 3.5-2.5, lead 6-1.5, 1,442,742
—, —, copper 86, nickel 15, vanadium 1, zinc 12, tin 7, aluminum 1, 1,162,226
Alloy, formula, copper 50-60, nickel 28-36, zinc 4-8, iron 4-8, 1,354,988
—, —, copper 56-64, nickel 13-17, zinc 10-15, iron 10-15, 1,310,363
—, —, copper 40-48, nickel 8-12, zinc 38-48, iron 1-6, manganese 1-3, 1,314,417
—, —, copper 60-70%, nickel 9-12%, zinc 10-24%, iron 1-2.5%, manganese trace, 1,432,607
—, —, copper 33⅓-56⅔%, silver 10-33⅓%, zinc 28-42%, 1,149,850
—, —, copper 87, tin 4.5-10, nickel 1-5, zinc 1-5, 1,457,288
—, —, copper 62.66, zinc 33.73, antimony 3.61, 1,124,302
—, —, copper 70, zinc 29, arsenic, 1,327,400; 1,327,401
—, —, copper 60-70, zinc 19-24, nickel 9-12, iron 1-2.5, manganese-copper 3, 1,393,388
—, —, copper 50-65, zinc 8-20, nickel 10-25, lead 3-10, tin 1-5, antimony 5-2, iron 0-2, 1,448,571
—, —, furnace slag 50, humite 8, copper 20, nickel 5, zinc 5, tungsten 5, iron 2, manganese 5%, 1,413,880
—, —, gold 75%, manganese .25-5%, nickel 3.3-24¾%, 1,340,451
—, —, gold 83.3%, nickel 16.7%, 1,355,811
—, —, gold 72, nickel 13.5, copper 16.5, 1,375,804
—, —, gold, nickel, zinc, 1,330,231
—, —, gold 75-85%, nickel 10-18%, zinc 2-9%, platinum 1/30%-1.5%, 1,391,449
—, —, gold and palladium, 1,339,505
—, —, gold 49, palladium 37, platinum 14, 1,449,154
—, —, gold 64%, silver 18¾%, copper 9%, palladium 8%, aluminum ¼%, 1,339,009
—, —, gold 5-15%, silver 0.5-5, palladium 0.5-5, platinum 75; 1,357,272
—, —, iron, chromium, cobalt, manganese, silicon, carbon, 1,357,549
—, —, iron 16-20, chromium 5-7, copper 31-38, nickel 38-46, manganese ¼-¾, 1,354,990
—, —, iron 55, chromium 15-40, nickel 4-20, carbon not over 1%, 1,338,378
—, —, iron 10-25%, chromium 10-20, nickel 60-70, carbon 2-6, silicon 1-3, manganese 1-2, aluminum 1-2, molybdenum, vanadium, zirconium, tungsten, 1,455,651
—, —, iron, chromium, titanium, mfr. of, 1,341,939
—, —, —, —, —, carbon, 1,346,343; 1,346,344
—, —, iron 78.9%, chromium 18, titanium 2.5, manganese 0.5, carbon 0.10, 1,464,312
—, —, iron, chromium, titanium, molybdenum, aluminum, silicon, 1,431,725
—, —, iron 78.9%, chromium 18, titanium 2.5, manganese 0.5, carbon 0.10, 1,464,312
—, —, iron contg., copper over 0.5%, 1,341,992
—, —, iron 8-12, copper 55-65, nickel 12-18, zinc 11-17, silicon ½-1, 1,360,773
—, —, iron 44.-53, nickel 33-39, chromium 10-12, tungsten 1-2, carbon 0.5-1, manganese and silicon 1-2, 1,313,291
—, —, iron 10, nickel 1, copper balance, 1,455,589
—, —, iron 3-20%, nickel 1 part per 4 to 12 of iron, copper balance, 1,455,589
—, —, iron 55, nickel 35, manganese 10, 1,279,252
—, —, iron and silicon casting, 1,346,333

Alloy, formula; iron with silicon 1-5%, manganese 0.20-1%, 1,352,367
—, —, lead 90%, alkali earth metals, alkali metals, mercury, aluminum, 1,360,348
—, —, lead 73, antimony 8, tin 19, 1,428,638
—, —, lead 80, antimony 12, tin 8, 1,428,638
—, —, lead, arsenic, sodium, 1,338,279
—, —, lead 97%, barium, calcium, 1,360,339
—, —, lead 30-50%, copper 47-68%, nickel 1-5%, arsenic 0.5%-1.5%, phosphorous 0.5%, 1,359,064
—, —, lead 10-14, copper 55-65, nickel 6-11, zinc 14-18, 1,354,989
—, —, lead, lithium small amount, 1,360,269
—, —, lead 99%, magnesium 0.01-0.1%, 1,360,045
—, —, lead 96%, magnesium 2%, mercury 2%, 1,360,347
—, —, lead 97%, potassium, sodium, mercury, 1,360,346
—, —, lead and tin, 1,377,512
—, —, lead 58, tin 42, 1,196,118
—, —, lead 89, tin 7½, antimony 3¼, phosphorous ¼, 1,304,849
—, —, lead 97-98%, tin 2-3%, cable casing of, 1,360,046
—, —, lead 34%, tin 34%, zinc 30%, aluminum 2%, solder contg., 1,336,081
—, lead 50%, tin 40, zinc 9%, antimony 1%, 1,404,001
—, —, lead, tin, zinc, antimony, copper, 1,328,694
—, —, lead 91, zinc 1, antimony 8, 1,357,907
— —, magnesium 91.5%, aluminum 8.5%, 1,374,968
—, —, magnesium 85-98%, aluminum 1½-14%, zinc ¾-6%, 1,341,774
—, —, magnesium, iron, silicon, 1,376,113
—, —, magnesium 92%, manganese 8%, 1,377,374
—, —, magnesium, manganese, copper, 1,334,193
—, —, magnesium 50-90%, silicon 10-40%, iron 0-10%, 1,322,158
—, —, magnesium 50-70%, silicon 10-20%, manganese 10-20%, iron 0-10%, 1,322,158
—, —, manganese 40, iron 10. copper 10, aluminum 10, tin 5, zinc 15, lead 10, 1,421,471
—, —, molybdenum 60-90, tantalum 40-10, 1,385,072
—, —, nickel 60, chromium 12, iron 26, manganese 1½, 1,270,519; 1,270,520
—, —, nickel 20-25, chromium 10-15, manganese 1-2, carbon 0.2-0.5, 1,422,096
—, —, nickel, chromium, steel, 1,342,913
—, —, nickel, 30%, cobalt 35%, chromium 15%, molybdenum 8%, manganese 2%, carbon 1½-2%, iron balance, 1,473,208
—, —, nickel over 50%, cobalt 1½% up, titanium, 1,337,276
—, —, nickel 40-65, copper 20-30, iron 2-15, manganese 2-25%, 1,403,558
—, —, nickel 3-9, copper 20-30, lead 61-77, 1,127,624
—, —, nickel 3-6, copper 3-6, silicon 1.5-4, aluminum not less than 85, 1,449,052
—, —, nickel 95.8, gold 2.48, zinc 1.20, magnesium .30, antimony .20, 1,468,407
—, —, nickel, iron, 1,389,696
Alloy, formula, nickel, molybdenum, iron, silicon, manganese, magnesium, vanadium, cobalt (varying proportions), 1,375,082; 1,375,083
—, —, nickel 70-80, tungsten 4-12, aluminum 7-8, zirconium 6-7, silicon 3-4, 1,277,046
—, —, nickel, zirconium, aluminum, silicon, 1,350,359
—, —, palladium ½-5%, gold 5-15%, platinum 8-95%, 1,378,996
—, —, palladium 6, gold 20, platinum 1, 1,282,055
—, —, palladium 5-15, silver 35-45, gold 50, 1,283,264
—, —, platinum 85%, molybdenum 0-15%. 1,407,525
—, —, —, tungsten 0.15%, 1,407,525
—, —, silicon 10-16%, iron 90-84%, 1,274,360
—, —, silicon 12-20%, iron balance, 1,283,280
—, —, silver 58⅓%, copper 16⅔%, zinc 16⅔%, nickel 8⅓%, 1,455,531
—, —, steel contg., carbon, uranium, manganese, nickel, silicon, phosphorus and sulfur, 1,366,254
—, —, tin 1, aluminum 3-8, coating iron with, 1,381,085
—, —, tin 97%, copper 3%, 1,366,167
—, —, tin, copper, zinc, 1,355,769
—, —, tin 55, lead 45, 1,366,167
—, —, tin 50, lead 25, zinc 17, antimony 8, 1,425,330; 1,475,503
—, —, tin 69¼, zinc 24½, aluminum 6¼, 1,196,118
—, —, tin 80, zinc 10, aluminum 8, tin phosphate 2, aluminum tinned with, 1,339,710
—, —, titanium 15%-35%, aluminum 1.5-3.5%, iron balance, 1,136,670
—, —, titanium 6%, chromium 10%, aluminum 10%, iron 73%, silicon 1% (proportions may vary), 1,389,097
—, —, titanium 1-5%, vanadium 5%, silicon 5%, iron or steel balance, 1,356,367
—, —, tungsten 18-40%, chromium 4.18%, tantalum 2.0%, carbon 0.78%, sulfur trace, phosphorus .009%, silicon 0.4%, manganese 0.52%, columbium 0.3%, vanadium 0.28%, iron balance, 1,389,679
—, —, tungsten, gold, calcium vanadate, 1,423,338
—, —, tungsten 80, molybdenum 20, 1,377,982
—, —, tungsten 97-90, molybdenum 3-10, vanadium 0.05-0.5, 1,418,081
—, —, tungsten 96.7-87.5, molybdenum 3-10, vanadium 0.05-0.5, gold 0.25-2, 1,418,081
—, —, vanadium 8.0-.25%, aluminum 6.0-.12%, copper balance, 1,126,484
—, —, zinc 80-85%, aluminum 18-14%, copper balance, 1,276,916
—, —, zinc 80-85%, aluminum, copper, manganese, titanium balance, 1,335,284
—, —, zinc 85-93%, aluminum 3-12%, tin 0.5-4%, 1,350,892
—, —, zinc, lead, cadmium, 1,333,619
—, —, zinc 11, lead 1.5 lbs., tin 1¾ lbs., copper 1 oz., 1,429,959
—, —, zirconium 6.8%, columbium 53.5%, tantalum 39.7%, 1,334,089
—, —, zirconium 15-40%, silicon 3-8%, iron balance, 1,389,695

Alloy, formula, zirconium (10%), silicon (10%), iron, titanium, carbon, 1,425,572
—, —, zirconium 35-40, titanium 4-5, carbon 4-8, iron, 57-47, 1,335,991; 1,335,992
—, fusible, antimony for, 1,452,750
—, —, balata article, vulcanization of using bath of, 1,152,834
—, —, bismuth in, 1,152,834; 1,191,572; 1,452,750
—, —, boot, rubber, vulcanization of using bath of, 1,152,834
—, —, cadmium for, 1,452,750
—, —, catgut, sterile container for, made with, 1,191,572
—, —, container, sterile, made with, 1,191,572
—, —, formula, bismuth 11, lead 8, tin 3, M. P. 205° F. 1,152,834
—, —, —, silver 0.1%, bismuth 40%, lead 59.9%, 1,191,572
—, —, gutta percha article, vulcanization of using both of, 1,152,834
—, —, hose, rubber, vulcanization of using bath of, 1,152,834
—, —, lead in, 1,152,834; 1,191,572; 1,452,750
—, —, mfr. of, 1,452,750
—, —, mold made using, 1,188,051
—, —, molded article, hollow, made with, 1,504,547
—, —, phenol aldehyde condensate hardened in, 1,377,517
—, —, rubber article, vulcanization of using bath of, 1,152,834; 1,152,835
—, —, shoe, rubber, vulcanization of using bath of, 1,152,834
—, —, silver in, 1,191,572
—, —, surgical ligature, sterile container for, made with, 1,191,572
—, —, tin in, 1,152,834; 1,452,750
—, —, tire, rubber, vulcanization of using bath of, 1,152,834
—, gas, cleaning of using, 1,515,949
—, glass, coating of with, 1,281,108
—, gold in, 1,164,997; 1,165,448; 1,169,753; 1,173,570; 1,248,621; 1,252,038; 1,282,055; 1,283,264; 1,296,938; 1,323,834; 1,355,811; 1,375,804; 1,376,656; 1,378,996; 1,423,338; 1,468,407; 1,469,191; 1,494,254; 1,515,464
—, gold, palladium, platinum, 1,449,154
—, —, silver, palladium in, 1,296,938
—, gold-palladium, catalyst of, 1,388,995
—, gold-platinum, mfr. of, 1,323,833; 1,431,713
—, —, hypodermic needles of, 1,431,713
—, gold-platinum-iridium, mfr. of, 1,323,834
—, granulating, 1,458,290
—, grate-bar, formula, iron with chromium 1%, nickel 2%, manganese 0.6%-0.75%, carbon 0.10-0.50%, sulfur and phosphorus below 0.05%, silicon 0.35%-0.50%, 1,433,180
—, gypsum, composition contg., coated with, process for, 1,258,282
—, hardness of, determining, 1,426,623
—, heater, chemical, made with, 1,506,322; 1,506,323
—, heat-resisting, formula, chromium 18%, nickel 4%, silicon 0.48%, titanium 0.2%, manganese 1%, carbon 1%, iron 75.32%, 1,389,133
—, —, —, iron 70, chromium 15, cobalt 13.5, manganese 0.5, silicon 0.5, carbon 0.5, 1,357,549
Alloy, heat-resisting, mfr. of, 1,400,527
—, —, —, iron and nickel for, 1,263,831
—, high speed cutting tools made of, 1,277,046; 1,278,304
—, high-temperature, formula, iron containing chromium 10-20%, silicon 2-6%, carbon and manganese, 1,378,941
—, hollow article made with, 1,343,191
—, horsehair, artificial, spinnert for, made with, 1,492,594
—, hydrogen made with, 1,506,323
—, implement, sterilizing of using, 1,246,899
—, incandescent, lamp wire, nickel, cobalt, manganese for, 1,342,993
—, infra-red ray, transparent screen as protection from made with, 1,176,313
—, iridium in, 1,165,448; 1,169,753; 1,207,047; 1,323,834; 1,515,464
—, iridium-gold-platinum, mfr. of, 1,323,834
—, iridium-palladium, catalyst of, 1,388,995
—, iron in, 1,126,629; 1,127,624; 1,128,726; 1,130,678; 1,134,127; 1,134,128; 1,134,129; 1,134,788; 1,136,670; 1,150,113; 1,151,160; 1,162,186; 1,164,840; 1,165,448; 1,166,342; 1,166,866; 1,168,962; 1,171,066; 1,181,570; 1,187,411; 1,187,412; 1,199,200; 1,227,569; 1,241,971; 1,244,742; 1,245,552; 1,247,206; 1,248,648; 1,252,023; 1,252,596; 1,257,272; 1,260,037; 1,261,742; 1,261,743; 1,261,987; 1,263,831; 1,264,459; 1,270,519; 1,270,520; 1,273,762; 1,273,877; 1,274,360; 1,277,989; 1,279,252; 1,279,828; 1,280,706; 1,282,981; 1,283,280; 1,287,153; 1,310,363; 1,313,291; 1,314,417; 1,322,158; 1,322,511; 1,324,763; 1,346,188; 1,346,189; 1,346,190; 1,346,191; 1,357,549; 1,357,550; 1,363,564; Re-15,208; 1,376,056; 1,376,062; 1,377,089; 1,421,471; 1,421,776; 1,445,253; 1,452,781; 1,461,643; 1,464,312; 1,468,937; 1,472,738; 1,473,208; 1,475,942; 1,480,706; 1,480,779; 1,480,846; 1,481,782; 1,483,298; 1,485,635; 1,489,243; 1,490,696; 1,491,913; 1,493,191; 1,495,504; 1,504,338; 1,510,541; 1,513,806; 1,514,064
—, iron, brass, crucible for melting of, made with, 1,241,971
—, —, —, manganese in, made with, 1,214,539
—, —, bronze, manganese in, made with, 1,214,539
—, —, carbon in, 1,313,894
—, —, chromium in, 1,313,894
—, —, chromium and nickel, 1,291,220
—, —, *cobalt, nickel, chromium, silicon, see Iron alloy, mfr. of*
—, —, copper in, 1,313,894
—, —, copper, crucible for melting of, made with, 1,241,971
—, —, copper alloy, manganese in, made with, 1,214,539
—, —, copper coated, made with, 1,244,414
—, —, corrosion-proof, mfr. of, chromium for, 1,317,592; 1,317,593
—, —, —, —, copper for, 1,317,592; 1,317,593
—, —, —, —, manganese for, 1,317,592; 1,317,593
—, —, heat insulator, 1,301,675
—, —, iron in, 1,313,894
—, —, magnetic properties of, 1,277,524
—, —, manganese in, 1,313,894

Alloy, iron, manganese, brass contg., made with, 1,214,539
—, —, —, bronze contg., made with, 1,214,539
—, —, —, copper alloy contg., made with, 1,214,539
—, —, mfr. of, 1,452,232
—, —, mfr. of, German silver for, 1,317,592; 1,317,593
—, —, —, Monel metal for, 1,317,592; 1,317,593
—, —, —, process for, 1,268,849; 1,290,010; 1,290,011
—, —, phosphorus in, 1,313,894
—, —, resistance of, 1,274,250
—, —, rust-proof, aluminum in, 1,317,592; 1,317,593
—, —, —, carbon in, 1,317,592; 1,317,593
—, —, —, chromium in, 1,317,592; 1,317,593
—, —, —, copper in, 1,317,592; 1,317,593
—, —, —, manganese in, 1,317,592; 1,317,593
—, —, —, mfr. of, chromium for, 1,317,592; 1,317,593
—, —, —, —, copper for, 1,317,592; 1,317,593
—, —, —, —, manganese for, 1,317,592; 1,317,593
—, —, —, molybdenum in 1,317,592; 1,317,593
—, —, —, nickel in, 1,317,592; 1,317,593
—, —, —, phosphorus in, 1,317,592; 1,317,593
—, —, —, silicon in, 1,317,592; 1,317,593
—, —, —, sulfur in, 1,317,592; 1,317,593
—, —, —, titanium in, 1,317,592; 1,317,593
—, —, —, tungsten in, 1,317,592; 1,317,593
—, —, rustproofing of with, 1,280,268
—, —, sheet, corrosion resistant, made with, 1,144,106
—, —, silicon in, 1,313,894
—, —, sodium cyanide furnace made of, 1,321,892
—, —, sulfur in, 1,313,894
—, —, vanadium 5%, titanium 1-5%, silicon 5%, 1,356,367
—, —, vault, burglar proof, made with, 1,482,480
—, —, zinc coated, made with, 1,244,414
—, —, zirconium, titanium, mfr. of, 1,335,991; 1,335,992
—, —, *see also Duriron; Ferro-aluminum; Ferro-compounds; Ferro-manganese; Ferro-nickel; Ferro-phosphorus; Ferro-silicon; Ferro-tungsten; Iron, alloy contg., Iron alloy; Invar; Steel alloy; Tantiron*
—, iron 96, chromium 4, electrical heating element of, 1,416,436
—, iron-aluminum, explosive contg., 1,410,868
—, —, formation of, 1,346,062;
—, —, magnetic properties of, improving, 1,358,810
—, —, mfr. of, 1,396,276; 1,453,254
—, iron-chromium, gas-oil cracked in tube of, 1,425,577
—, —, preparing, 1,365,499
—, —, *see also Iron-chromium alloys*
—, iron-chromium group metal, forming by pressure, 1,359,353
—, iron-copper, mfr. of, 1,455,589
—, iron-copper-nickel, mfr. of, 1,455,589
—, iron-molybdenum, 1,355,589; 1,355,590
—, iron-nickel, producing, 1,356,342
—, iron-nickel-chromium, 1,422,096
—, iron silicide, mfr. of, process for, 1,274,360
Alloy, iron silicon, magnetic properties of, improving, 1,358,810
—, *iron-tungsten, see Ferro-tungsten*
—, iron-uranium, mfr. of, 1,240,056
—, iron-zinc, formation of, 1,456,798
—, —, mfr. of, 307,853
—, iron-zirconium, 1,374,037
—, jewelry made from, 1,149,850
—, jewelry settings made of, 1,282,055
—, lanthanum in, mfr. of, process for, 1,290,010; 1,290,011
—, lead in, 1,127,624; 1,138,845; 1,142,220; 1,148,194; 1,155,317; 1,158,671; 1,158,672; 1,158,673; 1,158,674; 1,158,675; 1,169,536; 1,180,996; 1,186,217; 1,194,101; 1,195,376; 1,195,955; 1,196,118; 1,200,770; 1,203,991; 1,208,798; 1,208,799; 1,227,569; 1,228,017; 1,239,465; 1,239,854; 1,269,000; 1,273,146; 1,277,989; 1,280,908; 1,280,909; 1,285,231; 1,286,921; 1,320,192; 1,324,763; 1,328,694; 1,359,064; 1,360,272; 1,376,339; 1,377,089; 1,421,471; 1,425,330; 1,468,828; 1,475,503; 1,483,327; 1,490,696; 1,497,011; 1,502,321; 1,502,425; 1,510,541; 1,512,190
—, —, airplane propeller made with, 1,343,191
—, —, aluminum and magnesium in, 1,385,223
—, —, fire detecting wire made with, 1,235,028
—, —, formula contg., 1,452,750
—, —, hollow article made with, 1,343,191; 1,377,517
—, —, hollow article molded using, 1,135,962
—, —, iron coating of using, 1,161,944; 1,168,663; 1,168,664
—, —, lithium in, 1,360,269
—, —, molded article, hollow, made with, 1,343,191; 1,504,547
—, —, phenol aldehyde condensate article made with, 1,377,517
—, —, plating metals with, 1,330,399
—, —, printing plate made with, 1,377,517
—, —, steel, coating of using, 1,161,944; 1,168,663; 1,168,664
—, lead-antimony, iron coated with, 1,378,439
—, —, storage battery grids of, 1,328,394
—, lead-barium, preparing, 1,359,813
—, lead-barium-calicum-strontium, mfr. of, 1,447,143
—, lead-barium group metals in, 1,220,192
—, lead-barium magnesium, preparing, 1,359,813
—, lead-base, formula, lead 97.88%, barium 1.0, calcium 0.5, mercury 0.25, tin 0.25, zinc 0.10, aluminum 0.02, 1,360,272
—, lead-calcium, chlorides reduced by, 1,388,086
—, —, preparing, 1,359,813
—, lead-calcium-barium, preparing, 1,359,813
—, lead-calcium-magnesium, preparing, 1,359,813
—, lead-light-metals, chloride decomposed with, 1,388,086
—, lead-magnesium, mfr. of, 1,320,192; 1,388,086
—, —, preparing, carnallite and sodium chloride for, 1,359,813
—, lead-manganese-barium, preparing, 1,359,813
—, lead-potassium, chlorides reduced by, 1,388,086
—, lead (contg. over 99%) silver, 1,358,908
—, lead-sodium, chlorides reduced by, 1,388,086

Alloy, lead-sodium, alloys contg., alkali earth metals prepared with, 1,359,813
—, lead-thallium, 1,384,056
—, lead-tin, bearings coated with, 1,399,810
—, —, electroplating with, 1,464,506
—, —, steel coated with, 1,399,810
—, —, steel electroplated with, 1,364,051
—, —, bismuth, printing plate matrices of, 1,410,031
—, lead(45)-tin(55)-copper in bore of guns removed by, 1,359,338
—, lead-tin-zinc, metal fouling of guns prevented by, 1,336,463
—, lead-zinc-antimony, iron coated with, 1,378,439
—, lead-zirconium, mfr. of, 1,335,982
—, Leminite as, 1,381,771
—, light metal, casting of, process for, 1,376,192
—, lightning arrester, electrode for, made with, 1,488,936
—, lime,composition contg., coated with, process for, 1,258,282
—, lithium in, 1,142,220
—, low fusing point, mfr. of, 1,293,426
—, low melting, rubber vulcanized by immersion in molten, 1,368,071
—, magnesium in, Re-15,407 (1,412,280); 1,130,785; 1,132,376; 1,151,744; 1,158,672; 1,158,675; 1,169,392; 1,175,655; 1,180,996; 1,227,569; 1,258,261; 1,261,987; 1,273,762; 1,286,921; 1,305,166; 1,320,192; 1,322,158; 1,341,774; 1,371,214; 1,382,147; 1,422,591; 1,439,865; 1,468,407; 1,472,738; 1,472,739; 1,472,740; 1,485,158; 1,492,282; 1,493,191; 1,494,254
—, —, casting of, barium chloride for, 1,476,192
—, —, —, process for, 1,476,192
—, —, copper and silicon, mfr. of, 1,310,449
—, —, forging, 1,374,968
—, —, lead and aluminum in, 1,385,223
—, —, *see also Electron metal*
—, magnesium-aluminum, metals scavenged with, 1,460,830
—, —, preparing, 1,359,813
—, magnesium-aluminum-sodium, formation of, 1,457,225
—, magnesium-aluminum-zinc, mfr. of, 1,458,290
—, magnesium-cobalt, nickel-chromium-iron alloy dioxidized with, 1,437,405
—, magnesium-copper, mfr. of, 1,310,449
—, magnesium-lead, mfr. of, 1,320,192; 1,388,086
—, —, preparing, carnallite and sodium chloride for, 1,359,813
—, magnesium-lead-barium, preparing, 1,359,813
—, magnesium-lead-calcium, preparing, 1,359,813
—, magnesium-manganese-silicon, mfr. of, 1,461,643
—, magnesium nickel, nickel-chromium-iron alloy deoxidized with, 1,437,405
—, magnesium-silicon, composition of, 1,322,158
—, —, mfr. of, 1,310,466
—, —, properties of, 1,310,466
—, magnesium-tin, mfr. of, process for, 1,258,261
—, magnesium-zinc, production of, 1,388,086
—, magnetic, 1,291,408
—, manganese in, Re-15,407 (1,412,280); 1,127,624; 1,130,785; 1,151,160; 1,162,186; 1,164,840; 1,166,342; 1,175,724; 1,180,996; 1,181,570; 1,187,411; 1,187,412; 1,203,180; 1,203,555; 1,217,578; 1,227,569; 1,241,971; 1,244,742; 1,245,552; 1,248,648; 1,251,341; 1,252,596; 1,261,742; 1,261,743; 1,261,987; 1,270,519; 1,270,520; 1,273,762; 1,274,395; 1,279,252; 1,279,448; 1,280,706; 1,286,921; 1,313,291; 1,314,417; 1,321,063; 1,322,158; 1,322,511; 1,342,993; 1,346,190; 1,357,549; 1,371,214; 1,421,471; 1,422,096; 1,452,781; 1,464,312; 1,468,937; 1,472,738; 1,472,739; 1,472,740; 1,473,208; 1,475,942; 1,480,807; 1,485,158; 1,489,116; 1,489,243; 1,490,696; 1,493,191; 1,495,504; 1,504,338; 1,508,032; 1,509,608; 1,513,793; 1,513,806; 1,514,064
Alloy, manganese in, brass, crucible for melting of, made with, 1,241,971
—, —, —, manganese in, made with, 1,214,539
—, —, bronze, manganese in, made with 1,214,539
—, —, copper, crucible for melting of, made with, 1,241,971
—, —, copper alloy, manganese in, made with, 1,214,539
—, —, manganese, brass contg., made with, 1,214,539
—, —, —, bronze contg., made with, 1,214,539
—, —, —, copper alloy contg., made with, 1,214,539
—, —, resistance of, 1,274,250
—, —, sodium cyanide furnace made of, 1,321,892
—, —, *see also Ferro-manganese; Silico-manganese*
—, manganese-aluminum, explosive contg., 1,410,868
—, —, mfr. of, 1,453,254
—, manganese-aluminum-silicon, explosive contg., 1,410,868
—, manganese-aluminum-zinc, 1,358,147
—, manganese-copper used in preparing, 1,422,591
—, manganese-copper-silver, catalyst in ammonia oxidation, 1,357,000
—, manganese-lead-barium, preparing, 1,359,813
—, manganese-magnesium-silicon, mfr. of, 1,461,643
—, mfr. of, 1,426,623; 1,449,338
—, —, alumina crucible for, 1,150,113
—, —, aluminum for, 1,161,160; 1,221,769; 1,239,854; 1,277,046; 1,278,304; 1,300,058; 1,321,684
—, —, aluminum, calcium in, for, 1,321,684
—, —, —, copper in, for, 1,321,684
—, —, —, iron in, for, 1,321,684
—, —, —, magnesium in, for, 1,321,684
—, —, —, silicon in, for, 1,321,684
—, —, —, zinc in, for, 1,321,684
—, —, aluminum bronze for, 1,300,058
—, —, aluminum "swarf" for, 1,321,684
—, —, antimony for, 1,203,991; 1,269,000; 1,304,849; 1,502,321
—, —, antimony sulfide for, 1,138,845
—, —, antimony trioxide for, 1,221,873
—, —, apparatus for, 1,132,376
—, —, arsenic for, 1,127,624
—, —, arsenic trioxide for, 1,221,873
—, —, Babbitt metal for, 1,239,785

Alloy, mfr. of, bismuth for, 1,248,925
—, —, boric acid for, 1,283,264
—, —, boron carbide for, 1,520,033
—, —, by-product in calcium aluminate mfr., 1,376,563
—, —, cadmium in, 1,301,688
—, —, calcium for, 1,321,684
—, —, calcium as deoxidizing agent for, 1,293,426
—, —, carbon in, 1,322,511; 1,376,056
—, —, charcoal for, 1,127,624
—, —, chlorides for, 1,151,160
—, —, chromite for, 1,357,550
—, —, chromium for, 1,163,813; 1,376,056; 1,322,511; 1,520,033
—, —, chromium oxide for, 1,150,113
—, —, cobalt for, 1,151,160; 1,322,511; 1,376,056; 1,520,033
—, —, cobalt oxide for, 1,150,113; 1,221,873
—, —, columbium for, 1,151,160
—, —, copper for, 1,127,624; 1,138,845; 1,163,813; 1,248,925; 1,300,058; 1,510,541
—, —, copper sulfate for, 1,269,000; 1,510,541
—, —, dental work made with, 1,283,264
—, —, electrical work made with, 1,283,264
—, —, electrolytic, 1,461,276
—, —, ferro-chromium for, 1,150,113; 1,357,550; 1,376,056; 1,508,032
—, —, ferro-silicon for, 1,163,813; 1,510,541
—, —, ferro-titanium for, 1,150,113
—, —, ferro-uranium for, 1,247,252
—, —, fluorides for, 1,151,160
—, —, glass for, 1,520,033
—, —, graphite for 1,163,813
—, —, graphite crucible for, 1,376,056
—, —, graphite mold for, 1,520,033
—, —, hydrochloric acid for, 1,239,854
—, —, ilmenite for, 1,151,160
—, —, iron in, 1,322,511; 1,376,056
—, —, iron alloy, zirconium in, for, 1,151,160
—, —, iron oxide for, 1,150,113
—, —, iron(ic) oxide for, 1,151,160
—, —, jewelry made with, 1,283,264
—, —, lard in flux for, 1,468,828
—, —, lead for, 1,127,624; 1,138,845; 1,203,991; 1,239,854; 1,269,000; 1,301,688; 1,304,849; 1,502,321; 1,510,541
—, —, lead-tin sulfide for, 1,510,541
—, —, magnesia crucible for, 1,150,113
—, —, magnesium for, 1,277,046; 1,278,304; 1,321,684
—, —, magnesium as deoxidizing agent for, 1,293,420
—, —, manganese for, 1,150,113; 1,151,160; 1,322,511
—, —, mercury for, 1,248,925
—, —, mercury(ic) oxide for, 1,127,624
—, —, metal for, 1,151,160
—, —, metal chloride for, 1,321,684
—, —, metal oxide for, 1,321,684
—, —, metal salt for, 1,321,684
—, —, metal sulfide for, 1,321,684
—, —, molybdenum in, 1,322,511
—, —, Monel metal for, 1,127,624
—, —, nickel for, 1,127,624; 1,151,160; 1,163,813; 1,322,511; 1,520,033
—, —, nickel oxide for, 1,221,769; 1,221,873
Alloy, mfr. of, nickel oxide, black, for, 1,277,046; 1,278,304
—, —, ore for, 1,321,684
—, —, oyster shell in flux for, 1,468,828
—, —, phosphor-brass for, 1,502,321
—, —, phosphor-copper for, 1,502,321
—, —, phosphor-manganese-copper for, 1,502,321
—, —, phosphorus for, 1,203,991; 1,304,849
—, —, phosphorus, yellow, for, 1,203,991
—, —, phosphor-zinc for, 1,502,321
—, —, process for, 1,127,624; 1,132,376; 1,138,845; 1,150,113; 1,151,160; 1,163,813; 1,203,991; 1,221,769; 1,221,873; 1,239,785; 1,239,854; 1,247,252; 1,248,925; 1,252,887; 1,269,000; 1,277,046; 1,278,304; 1,321,684; 1,376,056; 1,426,623; 1,449,338; 1,502,321; 1,510,541; 1,520,033
—, —, rutile for, 1,151,160
—, —, silica for, 1,151,160; 1,277,046; 1,278,304
—, —, silicon for, 1,300,058; 1,321,684; 1,322,511
—, —, silicon copper for, 1,300,058
—, —, sodium carbonate for, 1,151,160
—, —, sodium hydroxide for, 1,269,000
—, —, spermaceti for, 1,239,785
—, —, sphene for, 1,151,160
—, —, steam to prevent oxidation during, 1,315,206
—, —, sulfur for, 1,510,541
—, —, sulfuric acid for, 1,194,101
—, —, tantalum for, 1,151,160
—, —, thermite process for, 1,277,034; 1,321,684
—, —, tin for, 1,138,845; 1,239,785; 1,239,854; 1,248,925; 1,269,000; 1,300,058; 1,301,686; 1,304,849; 1,502,321; 1,510,541
—, —, titanium in, 1,322,511
—, —, titanium dioxide for, 1,151,160
—, —, tungsten in, 1,322,511; 1,376,056; 1,520,033
—, —, uranium for, 1,247,252
—, —, vanadium in, 1,322,511
—, —, volatile substance introduced in, apparatus for, 1,315,208
—, —, zinc for, 1,239,785; 1,239,854; 1,248,925
—, —, zircon for, 1,151,160
—, —, zirconium in, 1,322,511
—, —, zirconium alloy, iron in, for, 1,151,160
—, —, zirconium dioxide for, 1,151,160
—, —, zirconium oxide for, 1,151,160; 1,221,769; 1,277,046; 1,278,304
—, —, zirkite, Brazilian, for, 1,277,046; 1,278,304
—, match made with, 1,360,283; Re-15,039
—, melting, furnace for, 1,350,714
—, mercury in, 1,164,997; 1,200,770
—, mercury, mfr. of, process for, 1,252,887
—, —, *see also Amalgams*
—, metal, coating of with, 1,281,108
—, —, copper coated, made with, 1,244,414
—, —, rare, in, mfr. of, process for, 1,306,070
—, —, separating, process for, 1,452,813
—, —, zinc coated, made with, 1,244,414
—, metal article, hollow, made with, 1,250,802
—, metal recovery from, 1,428,041
—, mold, sand, made with, 1,153,231
—, molded article made with, 1,377,517
—, molded article, hollow, made with, 1,343,191
—, molten, gasolene made with, 1,141,529
—, —, iron alloy resistant to the action of, 1,493,191

Alloy, molten, naphtha made with, 1,141,529
—, molybdenum in, 1,150,113; 1,221,769; 1,236,384; 1,248,621; 1,251,341; 1,261,742; 1,261,743; 1,261,987; 1,277,046; 1,287,153; 1,319,537; 1,322,511; 1,346,188; 1,346,189; 1,346,190; 1,357,550; 1,363,564; Re-15,208; 1,376,056; 1,385,072; 1,472,740; 1,473,208; 1,483,298; 1,485,635; 1,489,243; 1,493,191; 1,495,504; 1,499,338; 1,504,338; 1,513,806
—, —, mfr. of, process for, 1,306,070; 1,308,911
—, molybdenum-aluminum, mfr. of, 1,453,254
—, molybdenum-chromium, preparing, 1,365,499
—, molybdenum-iron, 1,355,589; 1,355,590
—, molybdenum-platinum in, 1,407,525
—, molybdenum-tungsten, 1,343,976; 1,343,977
—, —, mfr. of, 1,308,907
—, Monel metal-aluminum, mfr. of, 1,305,551
—, naphthol, made using, heating bath of, 1,213,143
—, nickel in, 1,127,624; 1,147,398; 1,150,113; 1,151,160; 1,162,226; 1,164,840; 1,165,448; 1,166,342; 1,166,866; 1,168,074; 1,175,724; 1,180,996; 1,181,570; 1,187,411; 1,199,200; 1,203,180; 1,203,555; 1,217,578; 1,221,769; 1,227,569; 1,229,037; 1,241,971; 1,244,742; 1,247,206; 1,248,648; 1,248,924; 1,251,341; 1,252,038; 1,257,272; 1,261,742; 1,261,743; 1,261,987; 1,263,831; 1,268,495; 1,270,519; 1,270,520; 1,273,762; 1,273,877; 1,274,395; 1,277,046; 1,277,989; 1,278,304; 1,279,252; 1,279,448; 1,282,981; 1,286,921; 1,310,363; 1,313,291; 1,314,417; 1,321,063; 1,322,511; 1,342,993; 1,346,188; 1,346,189; 1,346,191; 1,355,811; 1,357,550; 1,359,064; 1,375,804; 1,376,056; 1,376,062; 1,376,656; 1,377,089; 1,421,776; 1,439,865; 1,445,253; 1,449,052; 1,468,407; 1,468,937; 1,469,191; 1,472,739; 1,472,740; 1,473,208; 1,475,942; 1,480,706; 1,480,779; 1,481,782; 1,483,298; 1,489,116; 1,489,243; 1,490,696; 1,491,913; 1,493,191; 1,494,254; 1,495,504; 1,496,269; 1,504,338; 1,509,608; 1,513,793; 1,513,806; 1,520,033
—, —, aluminum-silicon in, 1,461,178
—, —, brass, crucible for melting of, made with, 1,241,971
—, —, chromium, iron, manganese, silicon, cyanide apparatus of, 1,388,586
—, —, copper, crucible for melting of, made with, 1,241,971
—, —, heat insulator, 1,301,675
—, —, molybdenum in, 1,461,178
—, —, preparing, 1,349,918
—, —, resistance of, 1,274,250
—, —, sodium cyanide furnace made of, 1,321,892
—, —, steel and iron united in bath of, 1,455,307
—, —, tungsten in, 1,461,178
—, —, *see also Ferro-nickel; Invar; Nichrome*
—, nickel 90, chromium 10, carbon 0.5-2; silicon 1-2, electrical resistance wire of, 1,465,547
—, nickel 15, copper 85, bullet jacketed with, 1,357,865
—, nickel-aluminum, mfr. of, 1,453,254
—, nickel-aluminum-silicon, mfr. of, 1,461,178
—, nickel article, hollow, made with, 1,250,802
—, nickel-chromium, furnace for sodium cyanide mfr. made of, 1,307,362
—, —, heat insulator, 1,301,675
Alloy, nickel-chromium, preparing, 1,365,499
—, —, *see also Nickel-chromium alloy; Nichrome*
—, nickel-chromium-iron, deoxidizing, magnesium for, 1,437,405
—, —, —, nickel-magnesium alloy for, 1,437,405
—, —, sodium cyanide kiln made of, 1,313,312; 1,313,313
—, nickel-chromium-iron-manganese, cyanide furnace contg., pot made of, 1,387,286
—, nickel-columbium, preparing, 1,355,532
—, nickel-copper-iron, mfr. of, 1,455,589
—, nickel-iron, producing, 1,356,342
—, nickel-magnesium, nickel-chromium-iron alloy deoxidized with, 1,437,405
—, nickel-steel, 1,291,408
—, —, electric lamp leading-in wire of, 1,422,443
—, —, mfr. of, 1,424,710; 1,424,711
—, nickel-tantalum, preparing, 1,355,532
—, nickel-zinc contg., preparing, 1,349,918
—, nickel-zirconium, mfr. of, 1,387,663
—, niobium in, 1,167,827; 1,346,189; 1,445,253
—, nitric acid resisting, formula, aluminum, 89-94, lead 5-10, magnesium trace, 1,385,223
—, non-corrodable, formulas for, 1,346,188; 1,346,189; 1,346,190
—, non-warping, mfr. of, 1,400,527
—, oil, composition contg., coated with, process for, 1,258,282
—, oil-coated, granulated, mfr. of, 1,458,290
—, oil-coating, 1,458,290
—, osmium in, Re-13,961 (1,055,119); 1,165,448; 1,167,827; 1,169,753; 1,248,621
—, osmium palladium, catalyst of, 1,388,955
—, oxidizable, casting of, magnesium oxalate for, 1,463,609
—, —, —, sulfur for, 1,463,609
—, —, magnesium oxalate with of, 1,463,609
—, —, melting of scrap, 1,292,582
—, —, sulfur, casting with of, 1,463,609
—, oxygen free, producing, alkali manganosilicate slag for, 1,363,382
—, packing made with, 1,206,306
—, palladium in, 1,165,448; 1,166,129; 1,169,753; 1,229,037; 1,248,621; 1,282,055; 1,283,264; 1,296,938; 1,378,996; 1,423,338; 1,515,464
—, palladium, catalyst contg., 1,388,995
—, palladium nickel, ammonia synthesis catalyst, 1,388,995
—, palladium-platinum-gold, 1,449,154
—, palladium-silver-gold in, 1,296,938
—, papier-mache, coated with, process for, 1,258,282
—, pasteboard coated with, process for, 1,258,282
—, paste-form, production of, electrolytic, 1,461,276
—, petroleum cracked using, 1,394,688
—, phenol, made using heating bath of, 1,213,143
—, phenol aldehyde condensate article made with, 1,377,517
—, phosphine produced by, 1,338,279
—, phosphorus in, 1,132,376; 1,166,342; 1,171,066; 1,175,655; 1,180,996; 1,203,991; 1,245,552; 1,252,596; 1,254,854; 1,265,150; 1,277,989; 1,285,231; 1,286,921; 1,359,064; 1,422,591; 1,453,928; 1,468,937; 1,502,321; 1,508,032; 1,513,793
—, —, brass, manganese in, made with, 1,214,539

Alloy, phosphorus in, bronze, manganese in, made with, 1,214,539
—, —, copper alloy, manganese in, made with, 1,214,539
—, —, manganese, brass contg., made with, 1,214,539
—, —, —, bronze contg., made with, 1,214,539
—, —, —, copper alloy contg., made with 1,214,539
—, —, mfr. of, apparatus for, 1,268,849; 1,287,653
—, —, —, carbon for, 1,268,849
—, —, —, electric furnace for, 1,268,849
—, —, —, phosphate rock for, 1,268,849
—, —, —, process for, 1,268,849
—, —, *see also Ferro-phosphorus; Phosphor compounds; Phosphor-bronze; Phosphor-copper; Phosphor-tin; Phosphor-zinc*
—, phosphorus-copper, mfr. of, apparatus for, 1,315,208
—, phosphor-tin in, 1,180,996
—, piston-rod packing made of, 1,285,231
—, plating with, electrolyte for, 1,404,156
—, platinum in, Re-13,961 (1,055,119); 1,165,448; 1,169,753; 1,173,570; 1,207,047; 1,282,055; 1,296,938; 1,323,834; 1,376,656; 1,378,996; 1,423,338; 1,494,254; 1,515,464
—, —, imitation, gold 83.3%, nickel 16.7%, 1,355,811
—, platinum-gold, mfr. of, 1,323,833
—, —, palladium, 1,449,154
—, platinum-gold-iridium, mfr. of, 1,323,834
—, platinum-molybdenum in, 1,407,525
—, platinum palladium, catalyst of, 1,388,995
—, platinum substitute, 1,282,055
—, —, *see Platinum, substitute for, formula*
—, platinum substitute of gold and palladium, 1,339,505
—, platinum-tungsten in, 1,407,525
—, potash used in preparing, 1,422,591
—, potassium in, 1,142,220; 1,200,770; 1,453,928
—, potassium, mfr. of, process for, 1,252,887
—, potassium-lead, chloride reduced by, 1,388,086
—, powder, propellent, made with, 1,357,865
—, *precious metal, see also Metal, precious, distortion of when heated*
—, preparing, method of, 1,432,289
—, printing plate made with, 1,377,517
—, printing plate matrices of, 1,410,031
—, pump valve made with, 1,295,394
—, purification of, boron trioxide for, 1,248,503
—, —, cerium oxide for, 1,248,503
—, —, charcoal for, 1,248,503
—, —, coke for, 1,248,503
—, —, copper(ous) oxide for, 1,248,503
—, —, glucose for, 1,248,503
—, —, glycerol for, 1,248,503
—, —, metal suboxide for, 1,248,503
—, —, process for, 1,248,503
—, —, suboxides for, 1,248,503
—, —, thorium oxide for, 1,248,503
—, —, titanium suboxide for, 1,248,503
—, —, tungsten suboxide for, 1,248,503
—, —, vanadium suboxide for, 1,248,503
—, —, water for, 1,248,503
—, —, zirconium oxide for, 1,248,503
Alloy, pyrophoric, formula, cerium (or mischmetal) 70-75%, iron 25-30%, 1,396,032
—, —, lighter wick ignited by, 1,430,543
—, —, protecting, oil process for, 1,396,032
—, radio-telegraphic, signal current, apparatus for recording of, made of, 1,198,270
—, rare earth metal in, 1,480,779
—, —, mfr. of, barium chloride for, 1,290,010; 1,290,011
—, —, —, kerosene for, 1,290,010; 1,290,011
—, —, —, potassium chloride for, 1,290,010; 1,290,011
—, —, —, process for, 1,290,010; 1,290,011
—, —, —, sodium chloride for, 1,290,010; 1,290,011
—, record, phonograph, made with, 1,518,443
—, recovery from scrap of, apparatus for, 1,260,312
—, —, process for, 1,260,312
—, refining of, apparatus for, 1,347,838
—, refractory, mfr. of, 1,435,742
—, rendering soluble of, process for, 1,471,751
—, resin, composition contg., coated with, process for, 1,258,282
—, resistance, electric, made with, 1,168,074; 1,175,724
—, —, formula, nickel, iron, tantalum, columbium, 1,445,253
—, rhodium in, 1,165,448; 1,169,753; 1,207,047; 1,248,621
—, rhodium palladium, catalyst of, 1,388,995
—, rolling of, roller for, mfr. of, 1,318,748
—, rubber, adhesion of to, 1,124,302
—, rubber vulcanized to, 1,124,302
—, rubber vulcanized by immersion in low-melting, 1,368,071
—, rust resisting, formula, iron, copper, molybdenum, 1,363,564; Re-15,208
—, —, molybdenum-iron for, 1,355,589; 1,355,590
—, ruthenium in, 1,165,448; 1,167,827; 1,169,753; 1,248,621
—, ruthenium palladium, catalyst of, 1,388,995
—, sandstone, calcareous coated with, process for, 1,258,282
—, scavenging, mfr. of, 1,415,733
—, —, *see also Metals, scavenging*
—, self-disintegrating, producing, 1,421,471
—, separating, chlorine for, 1,434,485; 1,434,486
—, slagging, arsenious acid for, 1,365,178
—, silicon in, 1,128,726; 1,134,127; 1,134,128; 1,134,129; 1,134,788; 1,162,186; 1,166,342; 1,168,962; 1,181,570; 1,203,180; 1,203,555; 1,245,552; 1,247,206; 1,252,023; 1,252,596; 1,257,272; 1,260,037; 1,273,877; 1,274,360; 1,277,046; 1,278,304; 1,279,828; 1,283,280; 1,286,921; 1,313,291; 1,322,158; 1,322,511; 1,346,187; 1,346,188; 1,346,189; 1,357,549; 1,357,550; 1,376,056; 1,376,062; 1,421,471; 1,449,052; 1,452,781; 1,453,928; 1,468,073; 1,468,937; 1,472,738; 1,472,739; 1,472,740; 1,475,942; 1,480,779; 1,485,635; 1,492,282; 1,493,191; 1,495,504; 1,508,032; 1,509,624; 1,510,242; 1,510,541; 1,513,793; 1,513,806; 1,514,064
—, —, *see also Duriron; Ferro-silicon; Silico-manganese; Tantiron*
—, silicon-aluminum, explosive contg., 1,410,868

Alloy, silicon-aluminum, iron improved by addition of, 1,396,276
—, —, mfr. of, 1,396,276; 1,464,625
—, silicon-aluminum-magnesium, explosive contg., 1,410,868
—, silicon-aluminum-nickel, mfr. of, 1,461,178
—, silicon-calcium, composition of, 1,322,158
—, silicon carbide contg., impurity of, 1,488,311
—, silicon copper in, 1,377,089
—, silicon copper, mfr. of, 1,300,058
—, silicon-copper, magnesium mfr. of, 1,310,449
—, silicon-iron, magnetic properties of, improving, 1,358,810
—, silicon-magnesium, composition of, 1,322,158
—, —, mfr. of, 1,310,466
—, silicon-magnesium-manganese, mfr. of, 1,461,643
—, silk, artificial, spinneret for, made with, 1,492,594
—, silver, in, 1,133,019; 1,146,185; 1,149,850; 1,164,997; 1,166,129; 1,169,658; 1,191,890; 1,229,037; 1,247,977; 1,248,621; 1,261,987; 1,283,264; 1,296,938; 1,483,327
—, silver, contg., less than 1% lead, 1,358,908
—, —, gold, palladium in, 1,296,938
—, silver-copper, catalyst, 1,383,059
—, silver-copper-manganese, catalyst in ammonia oxidation, 1,357,000
—, silver-palladium, catalyst of, 1,388,995
—, sodium in, 1,123,685; 1,142,220; 1,148,194; 1,175,655; 1,200,770; 1,269,000; 1,453,928
—, sodium, mfr. of, process for, 1,252,887
—, sodium bicarbonate, treatment with of, 1,471,751
—, sodium carbonate producing of using, 1,422,591
—, *sodium-copper, see Copper-sodium couple*
—, sodium hydroxide in, 1,269,000
—, sodium hydroxide, treatment with of, 1,471,751
—, sodium hydroxide resistant, 1,166,866
—, sodium-lead, calcium-lead alloy prepared from, 1,359,813
—, —, chlorides reduced by, 1,388,086
—, sodium-magnesium-aluminum, formation of, 1,457,225
—, sodium-potassium, 1,354,451
—, solder for, aluminum in, 1,145,307
—, —, antimony in, 1,344,566
—, —, copper in, 1,344,566
—, —, lead in, 1,145,307; 1,344,566
—, —, phosphorus in, 1,145,307
—, —, tin in, 1,145,307; 1,344,566
—, —, tin, phosphorus alloy of in, 1,145,307
—, —, white metal in, 1,344,566
—, —, zinc in, 1,145,307; 1,344,566
—, soldering of, soldering compound for, 1,245,862
—, spark-plug electrode made with, 1,274,395
—, spinneret made with, 1,492,594
—, spring, leaf, made with, 1,221,695
—, springs made from, 1,149,850
—, "standard" aluminum, mfr. of, 1,305,300
—, steel in, 1,199,200; 1,441,479
—, steel, carbon in, 1,313,894; 1,446,497
—, —, chromium in, 1,313,894
—, —, copper in, 1,313,894
Alloy, steel, copper coated, made with, 1,244,414
—, —, ferromanganese in mfr. of, 1,446,497
—, —, ferro-silicon in mfr. of, 1,446,497
—, —, ferro-uranium in mfr. of, 1,446,497
—, —, ferro-vanadium in mfr. of, 1,446,497
—, —, formula, carbon 0.30-0.60, manganese not over 0.80, silicon 1-2.5, chromium 0.30-0.80, vanadium 0.10-0.30, nickel 1.5-3.5%, 1,342,911
—, —, —, carbon 0.62%, silicon 0.20%, manganese, 0.63%, uranium 0.23%, vanadium 0.15% (balance steel), 1,446,497
—, —, high speed, substitute, 1,273,877
—, —, iron in, 1,313,894
—, —, manganese in, 1,313,894; 1,446,497
—, —, mfr. of, 1,366,662; 1,392,462; 1,424,612
—, —, phosphorus in, 1,313,894
—, —, producing, 1,402,088
—, —, silicon in, 1,313,894; 1,446,497
—, —, steel turnings in mfr. of, 1,446,497
—, —, sulfur in, 1,313,894
—, —, uranium in, 1,446,497
—, —, vanadium in, 1,446,497
—, —, zinc coated, made with, 1,244,414
—, —, *see also Steel alloy*
—, steel-improving, aluminum, magnesium, uranium, ferro-silicon, iron, 1,382,146
—, —, aluminum magnesium, ferro-silicon, zirconium, 1,382,147
—, stibine produced by, 1,338,279
—, stone, artificial, coated with, process for, 1,258,282
—, stone coated with, graphite for, 1,258,282
—, —, process for, 1,258,282
—, strontium in, 1,142,220; 1,158,672; 1,158,673; 1,169,392; 1,258,886; 1,500,954
—, sulfur in, 1,166,342; 1,245,552; 1,252,596; 1,468,937; 1,508,032
—, sulfur in producing of, 1,422,591
—, sulfuric acid resistant, 1,277,989; 1,425,330
—, superficial, forming on iron surfaces, 1,381,085
—, switch, electric, thermally controlled, made with, 1,380,049
—, tantalum in, 1,151,160; 1,167,827; 1,248,621; 1,248,648; 1,346,189; 1,346,190; 1,385,072; 1,445,253; 1,449,338
— tantalum-nickel, preparing, 1,355,532
—, telegraphic signal current, apparatus for recording of, made of, 1,198,270
—, tellurium in, mfr. of, process for, 1,306,070; 1,308,911
—, textile, artificial, spinneret for, made with, 1,492,594
—, thallium in, 1,200,770
—, thallium-lead, 1,384,056
—, thermocouple made with, 1,221,270
—, thermo-electric couple made with, 1,169,611
—, thorium in, 1,167,827; 1,248,621
—, —, mfr. of, process for, 1,290,010; 1,290,011
—, thorium oxide in, 1,423,338
—, tin, 1,133,376; 1,155,317; 1,162,226; 1,164,997; 1,165,448; 1,169,536; 1,169,658; 1,175,655; 1,180,996; 1,186,217; 1,194,101; 1,195,376; 1,195,955; 1,196,118; 1,199,200; 1,203,991; 1,208,798; 1,208,799; 1,217,578; 1,227,569; 1,228,017; 1,239,465; 1,239,785; 1,239,854; 1,254,854; 1,258,261; 1,269,000; 1,273,146;

Alloy, tin (continued)
1,280,706; 1,328,694; 1,344,165; 1,376,339; 1,421,471; 1,422,591; 1,425,330; 1,475,503; 1,483,327; 1,490,696; 1,497,011; 1,500,954; 1,502,321; 1,502,425; 1,510,541; 1,512,190; 1,513,806
Alloy, tin, airplane propeller of, 1,343,191
—, —, aluminum plated with, 1,332,307
—, —, fire detecting wire made with, 1,235,028
—, —, formula contg., 1,452,750
—, —, hollow article made with, 1,135,962; 1,343,191
—, —, iron, coating of using, 1,161,944
—, —, molded article made with, 1,377,517
—, —, molded article, hollow, made with, 1,343,191; 1,504,547
—, —, phenol aldehyde condensate article made with, 1,377,517
—, —, printing plate made with, 1,377,517
—, —, steel, coating of using, 1,161,944
—, —, *see also Phosphor-tin*
—, tin-copper-zinc, iron and steel united in bath of molten, 1,455,307
—, tin-lead, electroplating with, 1,464,506
—, —, iron coated with, 1,399,810
—, —, metal fouling of guns prevented by, 1,336,463
—, —, smokeless powder contg., 1,336,463
—, —, steel coated with, 1,399,810
—, —, *see also Solder*
—, tin-lead-copper, reflectors mfr. of, 1,336,224
—, titanium, 1,136,670; 1,151,160; 1,151,744; 1,166,342; 1,203,180; 1,203,555; 1,221,769; 1,248,621; 1,248,648; 1,251,341; 1,252,023; 1,260,037; 1,261,743; 1,261,987; 1,273,762; 1,322,511; 1,346,189; 1,346,190; 1,464,312; 1,480,706; 1,483,298; 1,489,116; 1,489,243; 1,493,191; 1,495,504; 1,504,338; 1,508,032; 1,513,806
—, —, resistance of, 1,274,250
—, —, *see also Cupro-titanium*
—, treatment of, alkali bisulfate for, 1,364,804
—, —, alkali earth bisulfate for, 1,364,804
—, —, apparatus for, 1,243,714; 1,347,838
—, —, hydrochloric acid for, 1,364,804; 1,378,485
—, —, iron(ic) sulfate for, 1,364,804
—, —, nitric acid for, 1,364,804; 1,378,485
—, —, process for, 1,243,714; 1,364,804; 1,378,485; 1,517,354
—, —, sodium bisulfate for, 1,364,804
—, —, sodium bisulfite for, 1,364,804
—, —, sodium chloride for, 1,364,804
—, —, sodium pyrosulfate for, 1,364,804
—, —, sulfuric acid for, 1,364,804; 1,378,485
—, tungsten, 1,166,342; 1,167,827; 1,203,180; 1,203,555; 1,221,769; 1,236,384; 1,248,621; 1,252,038; 1,261,987; 1,268,495; 1,277,046; 1,313,291; 1,319,537; 1,322,511; 1,346,188; 1,346,189; 1,346,190; 1,357,550; 1,376,056; 1,376,062; 1,423,338; 1,449,338; 1,468,073; 1,468,937; 1,483,298; 1,489,116; 1,489,243; 1,493,191; 1,495,504; 1,504,338; 1,513,806; 1,520,033
—, —, heat insulator, 1,301,675
—, —, mfr. of, process for, 1,306,070; 1,308,911
—, —, *see also Ferro-tungsten*
—, tungsten-chromium, preparing, 1,365,499
Alloy, tungsten-iron, see Ferro-tungsten
—, tungsten-molybdenum, 1,343,976; 1,343,977
—, —, mfr. of, 1,308,907
—, tungsten-platinum in, 1,407,525
—, tungsten-thorium, electric light filaments of, 1,422,019
—, —, mfr. of, 1,422,019
—, ultra-violet ray, transparent screen as protection from made with, 1,176,313
—, uranium, 1,247,252; 1,277,046; 1,376,056; 1,449,338; 1,489,116; 1,493,191; 1,495,504; 1,513,806
—, —, mfr. of, process for, 1,306,070; 1,308,911
—, —, metals scavenged with, 1,460,830
—, uranium-aluminum, mfr. of, 1,304,224
—, uranium-iron, mfr. of, 1,240,056
—, vanadium, 1,126,484; 1,162,226; 1,166,342; 1,167,827; 1,181,570; 1,244,742; 1,248,621; 1,261,742; 1,261,987; 1,282,981; 1,287,153; 1,305,166; 1,313,291; 1,322,511; 1,346,189; 1,346,190; 1,423,338; 1,468,937; 1,483,298; 1,489,116; 1,489,243; 1,493,191; 1,495,504; 1,504,338
—, —, mfr. of, process for, 1,306,070; 1,308,911
—, —, metals scavenged with, 1,460,830
—, *vanadium-iron, see Ferro-vanadium*
—, water gas made with, 1,506,323
—, welding, electric, process for, 1,134,007
—, welding of, flux for, 1,502,144
—, —, process for, 1,126,655
—, white metal in, 1,328,694
—, —, *see also Metal, white, formula*
—, wire-coating, formula, lead 91, zinc 1, antimony 8, 1,357,907
—, wood, coating of with, 1,281,108
—, Wood's, molybdenum sulfide soldered to copper wire with, 1,418,362
—, zinc in, 1,123,685; 1,124,302; 1,126,646; 1,149,850; 1,155,317; 1,162,226; 1,164,997; 1,180,996; 1,186,217; 1,194,101; 1,195,955; 1,196,118; 1,199,200; 1,212,374; 1,227,569; 1,239,465; 1,239,785; 1,239,854; 1,247,977; 1,273,146; 1,273,762; 1,276,916; 1,277,989; 1,280,706; 1,305,300; 1,310,363; 1,314,417; 1,328,694; 1,341,774; 1,344,165; 1,346,190; 1,376,339; 1,377,089; 1,421,471; 1,425,330; 1,468,407; 1,468,828; 1,469,191; 1,472,738; 1,475,503
—, zinc, aluminum and manganese, 1,358,147
—, —, formula, zinc contg. small amts. of manganese, copper and aluminum, 1,338,826
—, —, iron, coating of, using, 1,161,944; 1,168,663; 1,168,664; 1,244,414
—, —, hardness increased of, process for, 1,326,775
—, —, mfr. of, 1,364,654
—, —, —, electrolytic method for, 1,293,426
—, —, —, process for, 1,252,887
—, —, metal coated with, made with, 1,244,414
—, —, steel, coating of using, 1,161,944; 1,168,663; 1,168,664; 1,244,414
—, —, *see also "Electron" metal; Phosphor-bronze; Phosphor-zinc*
—, zinc-aluminum, aluminum chloride from, 1,455,005
—, zinc-aluminum-magnesium, mfr. of, 1,458,290

Alloy, zinc cadmium, electrical appliances protected by, 1,425,111
—, zinc-copper, 1,457,289
—, —, iron united with copper alloys by, 1,359,719
—, —, *see also Copper-zinc couples*
—, zinc-copper-tin, iron and steel united in bath of molten, 1,455,307
—, zinc-iron, formation of, 1,456,798
—, —, mfr. of, 1,307,853
—, zinc-magnesium, production of, 1,388,086
—, zirconium in, 1,151,160; 1,167,827; 1,221,769; 1,248,621; 1,248,648; 1,277,046; 1,278,304; 1,322,511; 1,346,190; 1,382,147; 1,464,312; 1,489,116; 1,493,191; 1,495,504
—, zirconium carbide in, 1,335,983
—, zirconium-lead, mfr. of, 1,335,982
—, zirconium-nickel, mfr. of, 1,387,663
—, zirconium-silicon, steel made with, 1,374,038
Alloy, see also Bearing metal; Brass; Ferro-chromium; Ferro-silicon; Lead alloy; Rose metal; Solder; Steel alloys; Wood's metal
Alloy apparatus, engine, internal combustion, fuel for, made with, 1,480,183
—, fuel, gaseous, made with, 1,480,183
—, producer gas made with, 1,480,183
Alloy core, metal article, hollow, made with, 1,250,803
Alloy electrode, barium in, 1,441,567; 1,441,568
—, calcium in, 1,441,567, 1,441,568
—, catalyst, hydrogenation, made with, 1,151,045; 1,175,905; 1,177,896
—, chromium in, 1,441,567; 1,441,568
—, chromium, ductile, made with, 1,297,000
—, copper in, 1,441,567; 1,441,568
—, fat, hydrogenation of using, 1,175,905; 1,177,896
—, hydrogenation, catalyst for, made with, 1,151,045; 1,175,905; 1,177,896
—, iron in, 1,441,567; 1,441,568
—, lead in, 1,441,567; 1,441,568
—, lead sulfide in, 1,441,567; 1,441,568
—, lightning arrester made with, 1,179,380
—, magnesium in, 1,441,567; 1,441,568
—, manganese in, 1,441,567; 1,441,568
—, metal, ductile, made with, 1,297,000
—, molybdenum, ductile, made with, 1,297,000
—, nickel in, 1,441,567; 1,441,568
—, oil, hydrogenation of using, 1,175,905; 1,177,896
—, sewage, softening of using, 1,222,637
—, —, treatment of using, 1,222,637
—, silicon in, 1,441,567; 1,441,568
—, strontium in, 1,441,567; 1,441,568
—, tin in, 1,441,567; 1,441,568
—, tungsten in, 1,441,567; 1,441,568
—, tungsten, ductile, made with, 1,297,000
—, water, softening of, using, 1,222,637
—, —, treatment of, using, 1,222,637
—, welding made with, 1,241,899; 1,517,292
Alloy powder, transfer metallic product made with, 1,515,722
Alloy steel, see Steel alloy
Alloy wool, heat insulator, 1,301,675
Allspice, see Pimenta
Allyl acetate, finish remover made with, 1,167,640
Allyl alcohol, allyl *p*-amino-benzoate made with, 1,360,994
—, allyl 3.5-diamino-benzoate made with, 1,360,994
—, allyl 3.5-dinitro-benzoate made with, 1,360,994
—, allyl *p*-nitro-benzoate made with, 1,360,994
—, allyl 2-phenylquinoline-4-carboxylate from, 1,336,952
—, epilepsy, compound for treatment of, made with, 1,205,138
—, ethyl alcohol, denatured, made using, 1,176,150; 1,176,462
—, finish remover made with, 1,145,980; 1,147,851; 1,167,640; 1,169,783; 1,172,773
—, osteomalacia, compound for treatment of, made with, 1,205,138
—, phosphorates, organic, made with, 1,205,138
—, phosphorites, organic, made with, 1,205,138
—, production of, wood for, 1,176,150; 1,176,462
—, " quasi-," finish remover made with, 1,172,773
—, rachitic disease, compound for treatment of, made with, 1,205,138
—, therapeutic compound made with, 1,205,138
—, *see also* Δ^2*-1-Propenol*
Allyl aldehyde, fats contg., 1,381,564
Allyl amine, allyl *n*-butyl amine made with, 1,476,934
—, camphoric acid derivatives made with, 1,406,547
Allyl *p*-aminobenzoate, anesthetic properties of, 1,360,994
—, mfr. of, allyl alcohol for, 1,360,994
—, —, allyl-*p*-nitro-benzoate for, 1,360,994
—, —, ether for, 1,360,994
—, —, hydrochloric acid for, 1,360,994
—, —, iron for, 1,360,994
—, — *p*-nitro-benzoyl chloride for, 1,,360,994
—, —, process for, 1,360,994
—, —, sodium hydroxide for, 1,360,994
—, preparing, 1,360,994
Allyl *p*-aminobenzoate hydrochloride, 1,360,994
Allyl 4-aminophenyl ether, see p-Allyloxy-aniline
Allyl-*iso*-amyl amine, *N*. *N*-allyl-*iso*-amyl-aminoethyl-alcohol made with, 1,476,934
N-Allyl-*N*-*iso*-amyl-aminoethyl alcohol, *b*-(*N*-allyl-*N*-*iso*-amyl) aminoethyl *p*-aminobenzoate made with, 1,476,934
—, *b*(*N*.-*N*-allyl-*N*-*iso*-amyl) aminoethyl *p*-nitro-benzoate made with, 1,476,934
—, mfr. of, allyl-*iso*-amyl amine for, 1,476,934
—, —, ethylene oxide for, 1,476,934
b(*N*-Allyl-*N*-*iso*-amyl) aminoethyl *p*-aminobenzoate, mfr. of, (*N*-allyl-*N*-*iso*-amyl) aminoethyl alcohol for, 1,476,934
—, —, *b*(*N*-allyl-*N*-*iso*-amyl) aminoethyl *p*-nitrobenzoate for, 1,476,934
—, —, benzene for, 1,476,934
—, —, ether for, 1,476,934
—, —, hydrochloric acid for, 1,476,934
—, —, *p*-nitrobenzoyl chloride for, 1,476,934
—, —, process for, 1,476,934
—, —, tin for, 1,476,934
b-(*N*-Allyl-*N*-*iso*-amyl)aminoethyl *p*-amino-benzoate hydrochloride, anesthetic properties of, 1,476,934
—, melting point of, 1,476,934

b(*N*-Allyl-*N*-*iso*-amyl)-aminoethyl *p*-nitrobenzoate, mfr. of, *b*-(*N*-allyl-*N*-*iso*-amyl) aminoethyl alcohol for, 1,476,934
5-Allyl-5Δ^2-butenyl-barbituric acid, hypnotic, 1,511,919
—, mfr. of, diethyl allyl Δ^2-butenyl-malonate for, 1,511,919
—, —, ethyl alcohol for, 1,511,919
—, —, hydrochloric acid for, 1,511,919
—, —, process for, 1,511,919
—, —, sodium for, 1,511,919
—, —, sodium alcoholate for, 1,511,919
—, —, urea for, 1,511,919
—, properties of, 1,511,919
Allylbromide, allyl-2-phenylquinoline-4-carboxylate from, 1,336,952
—, *a*-allyl-*a.a*-diethyl-acetamide made with, 1,482,343
—, *a*-allyl-*a.a*-diethyl-acetonitrile made with, 1,482,343
—, 1-allyl-3.7-dimethylxanthine from, 1,415,700
—, cephaeline allyl ether made with, 1,219,575
—, glycerol made with, 1,477,113
—, *iso*-propylallylbarbituric acid prepared from, 1,444,802
—, 1-allyl-theobromine made with, 1,415,700
—, *N*-(toluenesulfonyl-allyl)-p-aminophenyl toluenesulfonate made with, 1,316,804
Allyl *n*-butyl amine, *b*(*N*-allyl-*N*-*n*-butyl) aminoethyl p-aminobenzoate made with, 1,476,934
—, *b*(*N*-allyl-*N*-*n*-butyl) aminoethyl *p*-nitrobenzoate made with, 1,476,934
—, *g*-(*N*-allyl-*N*-*n*-butyl)aminopropyl *p*-aminobenzoate made with, 1,476,934
—, *g*-(*N*-allyl-*N*-*n*-butyl)aminopropyl *p*-nitrobenzoate made with, 1,476,934
—, mfr. of, allyl amine for, 1,476,934
—, —, *n*-butyl bromide for, 1,476,934
—, —, process for, 1,476,934
b(*N*-Allyl-*N*-*n*-butyl)aminoethyl *p*-aminobenzoate, mfr. of, allyl-*n*-butyl amine for, 1,476,934
—, —, *b*(*N*-allyl-*N*-*n*-butyl)aminoethyl *p*-nitrobenzoate for, 1,476,934
—, —, *b*-bromethyl *p*-nitrobenzoate for, 1,476,934
—, —, hydrochloric acid for, 1,476,934
—, —, process for, 1,476,934
—, —, tin for, 1,476,934
b(*N*-Allyl-*N*-*n*-butyl)aminoethyl *p*-nitrobenzoate, mfr. of, allyl *n*-butyl amine for, 1,476,934
—, —, *b*-bromethyl *p*-nitrobenzoate for, 1,476,934
g(*N*-Allyl-*N*-*n*-butyl)aminopropyl *p*-aminobenzoate, mfr. of, allyl-*n*-butyl amine for, 1,476,934
—, —, *g*(*N*-allyl-*N*-*n*-butyl)aminopropyl *p*-nitrobenzoate for, 1,476,934
—, —, benzene for, 1,476,934
—, —, *g*-brompropyl *p*-nitrobenzoate for, 1,476,934
—, —, hydrochloric acid for, 1,476,934
—, —, hydrogen sulfide for, 1,476,934
—, —, process for, 1,476,934
—, —, tin for, 1,476,934
g(*N*-Allyl-*N*-*n*-butyl)aminopropyl *p*-aminobenzoate hydrochloride, anesthetic properties of, 1,476,934
—, melting point of, 1,476,934
—, *g*(*N*-allyl-*N*-*n*-butyl)aminopropyl *p*-aminobenzoate made with, 1,476,934
—, mfr. of, allyl *n*-butyl amine for, 1,476,934
g(*N*-Allyl-*N*-*n*-butyl)aminopropyl *p*-nitrobenzoate, *g*(*N*-allyl-*N*-*n*-butyl)aminopropyl *p*-aminobenzoate made with, 1,476,934
—, —, benzene for, 1,476,934
—, —, *g*-brompropyl p-nitro-benzoate for, 1,476,934
—, —, process for, 1,476,934
Allylchloride, allyl 2-phenylquinoline-4-carboxylate from, 1,336,952
—, glycerol made with, 1,477,113
—, hydrochloric acid as by-product of mfr. of, 1,477,047
—, mfr. of, alkali metal for, 1,477,047
—, —, aluminum for, 1,477,047
—, —, barium chloride as catalyst for, 1,477,047
—, —, calcium for, 1,477,047
—, —, calcium chloride as catalyst for, 1,477,047
—, —, calcium hydroxide for, 1,477,047
—, —, 1.2-dibrompropane for, 1,477,047
—, —, 1.2-dichlorpropane for, 1,477,047
—, —, 1.2-dihalogenpropane for, 1,477,047
—, —, magnesium for, 1,477,047
—, —, magnesium hydroxide for, 1,477,047
—, —, metal chloride as catalyst for, 1,477,047
—, —, potassium hydroxide for, 1,477,047
—, —, process for, 1,477,047
—, —, sodium hydroxide for, 1,477,047
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Allylcrotylbarbituric acid, see 5-Allyl-5-Δ^2-butenyl-barbituric acid
Allylcrotylmalonic acid ester, see Diethyl allyl Δ^2-butenyl malonate
Allyl 1.3.5. diaminobenzoate, preparation of, 1,360,994
Allyl 1.3.5. diaminobenzoate dihydrochloride, 1,360,994
Allyl 3.5-diamino-benzoate, mfr. of, allyl alcohol for, 1,360,994
—, —, allyl 3.5-dinitro-benzoate for, 1,360,994
—, —, 3.5-dinitro-benzoic acid for, 1,360,994
—, —, hydrochloric acid for, 1,360,994
—, —, iron for, 1,360,994
—, —, process for, 1,360,994
1-Allyl-3.7-dimethyl-xanthine, see 1-Allyl-theobromine
Allyl-1.3.5-dinitrobenzoate, preparation of, 1,360,994
—, reducing, iron and hydrochloric acid for, 1,360,994
Allyl 3.5-dinitro-benzoate, allyl 3.5-diaminobenzoate made with, 1,360,994
—, mfr. of, allyl alcohol for, 1,360,994
—, —, 3.5-dinitro-benzoic acid for, 1,360,994
—, —, process for, 1,360,994
a-Allyl-*a.a*-diethyl-acetamide, mfr. of, alcohol for, 1,482,343
—, —, alkali hydroxide for, 1,482,343
—, —, allyl bromide for, 1,482,343
—, —, *a*.-allyl-*a.a*-diethyl-acetonitril for, 1,482,343

a-Allyl-*a.a*-diethyl-acetamide, mfr. of, brom-diethyl-acetonitrile for, 1,482,343
—, —, copper for, 1,482,343
—, —, process for, 1,482,343
—, —, toluene for, 1,482,343
—, melting point of, 1,482,343
a-Allyl-*a.a*-diethyl-acetonitrile, *a*-allyl-*a.a*-diethyl acetamide made with, 1,482,343
—, mfr. of, allyl bromide for, 1,482,343
—, —, brom-diethyl-acetonitrile for, 1,482,343
—, —, copper for, 1,482,343
—, —, process for, 1,482,343
—, —, toluene for, 1,482,343
1-Allyl-3.7-dimethyl-xanthine, see 1-Allyl-theobromine
Allylene, action of sulfuric acid on, 1,436,288
—, carboxylic acids condensed with, 1,425,130
—, *b*-chloropropylene from, 1,425,130
—, diolefines made with, 1,436,819
—, ethylene condensed with, 1,436,819
—, hydrochloric acid gas condensed with, 1,425,130
—, methyl chloride condensed with, 1,425,130
—, propylene sulfuric acid from, 1,436,288
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a-Allyl-a-ethyl-n-butyramide, see a-Allyl-a.a-diethyl-acetamide
a-Allyl-a-ethyl-n-butyronitrile, see Allyl-diethyl-acetonitrile
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4-Allyl-guaiacol, see Eugenol
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—, 1-allyl-theobromine made with, 1,415,700
—, cephaeline allyl ether made with, 1,219,575
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Allyl isothiocyanate, insecticide made with, 1,502,924
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Allyl mercaptan, turpentine impurity, 1,493,454
4-Allyl-2-methoxy-phenol, see Eugenol
1-Allyl-3.4-methylene-dihydroxybenzene, see Safrol
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—, diallylbarbituric acid compound of with, 1,255,423
—, mfr. of, allyldimethylphenyl ammonium hydroxide for, 1,255,423
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—, —, morphine for, 1,255,423
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—, —, allylmorphine for, 1,255,423
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—, —, methyl alcohol for, 1,255,423
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—, mfr. of, allyl alcohol for, 1,360,994
Allyl-*p*-nitro-benzoate, mfr. of, *p*-nitro-benzoyl chloride for, 1,360,994
—, —, process for, 1,360,994
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—, mfr. of, acetic anhydride for, 1,263,238
—, —, *p*-allyloxy-aniline for, 1,263,238
—, —, *p*-allyloxy-aniline hydrochlorate for, 1,263,238
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—, —, sodium acetate for, 1,263,238
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p-Allyloxy-aniline, p-allyloxy-acetanilide made with, 1,263,238
—, acet-*p*-allyloxy-aniline, condensation product of and, 1,384,637
—, *p*-allyloxy-isovaleranilide made with, 1,263,238
—, *p*-allyloxy-lactanilide made with, 1,263,238
—, *N.N'*-bis (*p*-allyloxy-phenyl)-acetamidine made with, 1,384,637
p-Allyloxy-aniline-hydrochlorate, *p*-allyloxy-acetanilide made with, 1,263,238
p-Allyloxy-*a*-brom-isovaleranilide, mfr. of, *a*-brom-isovaleryl bromide for, 1,263,238
—, —, ether for, 1,263,238
—, —, process for, 1,263,238
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—, —, sodium carbonate for, 1,263,238
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—, —, isovaleric acid for, 1,263,238
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p-Allyloxy-lactanilide, mfr. of, *p*-allyloxy-aniline for, 1,263,238
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—, properties of, 1,252,452
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p-Allylphenylmethyl ether, see Anethol
p-Allylphenylmethylic ether, see Anethol
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g-(*N*-Allyl-*N*-*n*-propyl)-aminopropyl *p*-amino-benzoate, mfr. of, process for, 1,476,934
g-(*N*-Allyl-*N*-*n*-propyl)-aminopropyl *p*-amino-benzoate hydrochloride, anesthetic properties of, 1,476,934
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?-Allyl-?-*iso*-propyl-barbituric acid, analgesic made with, 1,494,127
—, pyramidone, compound of and, 1,494,127
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—, lithium benzoate, compound of and, 1,455,264
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—, —, allyl bromide for, 1,415,700
—, —, allyl iodide for, 1,415,700
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—, —, potassium hydroxide for, 1,415,700
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Allyl thiocarbimide, battery, electric, contg., 1,316,760
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—, grinding of, apparatus for, 1,512,466
—, halvah made with, 1,154,059
—, medicine contg., bitter, 1,368,974
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—, —, oxygen from sodium perborate with, 1,252,973
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—, —, grinding composition made with, 1,276,509; Re-14,568
—, —, lubricant made with, 1,276,509; Re-14,568
—, —, phonograph record made with, 1,276,507; Re-14,570; 1,276,508; Re-14,569
—, —, polish made with, 1,276,509; Re-14,568
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—, —, asbestos as catalyst carrier for, 1,154,495
—, —, cerium as catalyst for, 1,251,202
—, —, cerium carbide as catalyst for, 1,251,202
—, —, cerium oxide as catalyst for, 1,251,202
—, —, cerium salt as catalyst for, 1,251,202
—, —, carbon as catalyst for, 1,476,330
—, —, cobalt as catalyst for, 1,476,330
—, —, didymium as catalyst for, 1,251,202
—, —, didymium carbide as catalyst for, 1,251,202
—, —, didymium salt as catalyst for, 1,251,202
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—, —, lead methyl as catalyst for, 1,138,201
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—, —, platinum as catalyst for, 1,476,330
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—, —, pumice for, 1,476,330
—, —, rare earth metal as catalyst for, 1,251,202
—, —, rare earth metal carbide as catalyst for, 1,251,202
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—, —, rare earth metal salt as catalyst for, 1,251,202
—, —, thallium methyl as catalyst for, 1,138,201
—, —, tin methyl as catalyst for, 1,138,201
—, —, thorium as catalyst for, 1,251,202
—, —, thorium carbide as catalyst for, 1,251,202
—, —, thorium oxide as catalyst for, 1,251,202
—, —, thorium salt as catalyst for, 1,251,202
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—, perfume made with, 1,378,099
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—, fibers from, mfr. of, 1,368,750
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—, —, aloe for, 1,167,230
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—, beverage made with, 1,280,150
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—, —, wool dyed with, 1,321,972
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—, extract of, tin-plating electrolyte contg., 1,466,126
—, —, *see also Aloin*
—, mercury bichloride tablet made with, 1,204,794
—, *neutral principle of, see Aloin*
—, paint, anti-fouling, contg., 1,330,022
—, poison tablet coated with, 1,335,488
—, poison tablet made with, 1,204,794
—, salt brick, medicated, made with, 1,204,551
—, Socotrine, paint, anti-fouling, made with, 1,330,022
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—, mercury bichloride tablet made with, 1,204,794
—, poison tablet made with, 1,204,794
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—, airplane fabric fireproof with, 1,427,941
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—, aluminum acetate made with, 1,504,911
—, aluminum alloy, coating of, treatment of surface before using, 1,144,000
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—, aluminum copper sulfate made with, 1,162,044
—, aluminum formate made with, 1,493,945
—, aluminum linoleate made with, 1,131,578
—, aluminum oxide made with, 1,195,655
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—, —, primary, made with, 1,190,880
—, —, storage, made with, 1,190,880
—, —, —, electrolyte for, made with, 1,468,957; 1,483,885; 1,517,660
—, battle-ship, packing for water-tight compartment of, made with, 1,235,220
—, belting made with, 1,151,690; 1,180,902
—, benzine made with, 1,274,913
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—, brake lining made with, 1,151,690; 1,162,371
—, brass article, filling for joints of, made with, 1,223,458
—, bread made with, 1,215,995
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—, —, trioxymethylene, compound of and, made with, 1,234,720
—, —, vulcanized, made with, 1,236,959
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—, cellulose pellicle, water resistant, made with, 1,234,720
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—, —, Keene's, made with, 1,504,829
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—, —, Sorel, made with, 1,238,147
—, —, waterproofing of, using, 1,242,585
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—, cement waterproofing composition contg., 1,418,374
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—, cigar, imitation, made with, 1,212,066
—, clay, Canadian d'Amherst, cleaned with, 1,438,588
—, —, —, treated with, 1,438,588
—, —, china, Canadian, cleaned with, 1,438,588
—, —, —, —, treated with, 1,438,588
—, —, —, cleaned with, 1,324,958
—, —, —, Fraddon, cleaned with, 1,438,588
—, —, —, —, treated with, 1,438,588
—, —, —, mid-Cornwall, cleaned with, 1,324,958
—, —, —, —, treated with, 1,324,958
—, —, —, North America, cleaned with, 1,324,958
—, —, —, —, treated with, 1,324,958
—, —, —, Pentruff cleaned, with, 1,324,958
—, —, —, —, treated with, 1,324,958
—, —, —, treated with, 1,324,958
—, —, deflocculated, precipitated with, 1,456,111; 1,456,112
—, —, Fraddon, cleaned with, 1,324,958
—, —, —, treated with, 1,324,958
—, —, Fraddon china, cleaned with, 1,438,587
—, —, —, treated with, 1,438,587
—, —, North Carolina, cleaned with, 1,324,958
—, —, —, treated with, 1,324,958
—, —, reflocculated, made with, 1,456,112
—, —, Wotter, cleaned with, 1,438,588
—, —, —, treated with, 1,438,588
—, clay cleaned with, 1,324,958; 1,438,587; 1,438,588
—, clay color lake flocculated by, 1,431,081
—, clay flocculated by, 1,438,587; 1,438,588
—, clay re-flocculated by, 1,419,951; 1,419,952
—, clay treated with, 1,324,958; 1,438,587; 1,438,588
—, cleaner made with, 1,234,266
—, cleaning composition contg., 1,449,281
—, clutch lining made with, 1,151,690

Alum, coal, bituminous, briquettes of, made with, 1,488,606
—, —, lignite, briquettes of, made with, 1,488,606
—, coal dust, briquettes of, made with, 1,488,606
—, coal slack, briquettes of, made with, 1,488,606
—, coating composition made with, 1,189,550; 1,244,777; 1,413,599; 1,476,016
—, cocoa, cocoa butter, extraction of from using, 1,487,449
—, cocoanut fiber treated with, 1,421,703
—, coffer dam, interlining for, made with, 1,235,220
—, concrete, acid-proofing of, using, 1,495,138
—, —, bonding of, using, 1,495,138
—, —, coating composition for, made with, 1,189,550
—, —, oil-proofing of using, 1,495,138
—, —, waterproofing of, using, 1,242,585; 1,495,138
—, confection contg., mfr. of, 1,450,865
—, container, metal, filling for joints of, made with, 1,223,458
—, copper made with, 1,162,044
—, copper article, filling for joints of, made with, 1,223,458
—, copper sulfate made with, 1,162,044
—, counter board made with, 1,345,317
—, croton bug repelling composition contg., 1,270,630
—, cuticle salve contg., 1,513,233
—, decomposition of, 1,415,308
—, deep sea fiber, spinning of using, 1,232,374
—, dehydrating, apparatus for, 1,457,787
—, dental preparation made with, 1,318,254
—, detergent made with, 1,481,811
—, doll made with, 1,199,251
—, dress form made with, 1,123,600
—, dyestuff made with, 1,243,042; 1,266,577
—, electric current, variations of, record of, made with, 1,213,613; 1,213,614; 1,213,615; 1,213,616
—, electroplating process employing, 1,464,149
—, embalming with, 1,318,957
—, emulsion, light-sensitive, made with, 1,252,800
—, enamel, white, made with, 1,234,777
—, ethyl alcohol, concentration of using, 1,492,717
—, ethyl cellulose, composition of and, 1,505,044
—, explosive made with, 1,141,009
—, fabric, coating for, contg., 1,277,695
—, —, embossed, made with, 1,379,703
—, —, soil-proof, made with, 1,277,695
—, —, water resisting, contg., 1,313,658
—, —, waterproofing of using, 1,240,345; 1,242,327
—, fabric stiffening material contg., 1,421,700
—, fabric transparentizing composition contg., 1,441,952
—, factory effluent, treatment of, using, 1,505,104
—, fat reducing compound contg., 1,369,997
—, feldspar, reflocculated, made with, 1,456,112
—, fiber, parchmentized, made with, 1,236,959
—, —, spinning of using, 1,232,374
—, —, vegetable, treatment preparatory to bleaching of using, 1,133,769
—, —, vulcanized, made with, 1,236,959
Alum, fiber board made with, 1,184,518; 1,280,400; 1,490,362
—, fiber product made with, 1,236,959
—, filament made with, 1,180,902
—, filament, artificial, made with, 1,505,044
—, filler made with, 1,242,480
—, film made with, 1,505,044
—, film, motion picture, colored, made with, 1,281,714
—, filter, sewage treated with, 1,465,137
—, —, trade waste treated with, 1,465,137
—, —, water purified with, 1,145,137
—, fire extinguisher made with, 1,248,092
—, fire extinguisher for cinematograph films contg., 1,392,233
—, fireproof board made with, 1,226,779
—, fire proofing made with, 1,123,401; 1,248,092; 1,273,213; 1,414,609; 1,436,231
—, fireproofing composition contg., 1,126,132
—, flax, treatment preparatory to bleaching of using, 1,133,769
—, floor covering made with, 1,356,784; 1,421,086
—, flooring made with, 1,194,926; 1,460,643; 1,519,311
—, floors treated with, 1,219,060
—, flotation process using, 1,203,372
—, flour, self-rising, made with, 1,244,867
—, fly repelling composition contg., 1,270,630
—, food product made with, 1,215,995
—, food product, imitation, made with, 1,212,066
—, formic acid, concentration of, using, 1,492,717
—, friction lining made with, 1,151,690; 1,162,371
—, fruit, imitation, made with, 1,212,066
—, fuel, liquid, made with, 1,165,462; 1,488,009
—, fuel briquet made with, 1,138,016
—, fur tanned using, 1,421,723
—, galena, flotation of, using, 1,203,372
—, —, sphalerite, separation from of, using, 1,203,372
—, —, zinc sulfide ore, separation from of, using, 1,203,372
—, galvanizing process employing, 1,464,149
—, gaskets made with, 1,151,690; 1,162,371
—, gasolene made with, 1,274,912; 1,274,913
—, gauze made with, 1,504,911
—, gelatin made with, 1,271,960; 1,289,053
—, gelatin-coated stencil hardened with, 1,461,867
—, gelatin hardened with, 1,367,177; 1,377,677; 1,466,532
—, glass, semi-opaque, made with, 1,153,353
—, —, semi-translucent, made with, 1,153,353
—, glass contg., layers of between sheets, 1,355,625
—, glue made with, 1,289,053; 1,356,784
—, glue hardened with, 1,421,086
—, glue, vegetable, made with, 1,248,039
—, graphite, reflocculated, made with, 1,456,112
—, gypsum, waterproofing of, using, 1,242,585
—, hair, straightening of, using, 1,500,519
—, —, treatment of, using, 1,500,519
—, hide tanned with, 1,256,718; 1,271,060
—, horse hair, artificial, water resistant, made with, 1,234,720
—, horse-hair fabric, treatment of with, 1,469,023
—, hydrocarbon made with, 1,274,913

Alum, hydrogenation, catalyst for, made with, 1,238,774
—, hydrogen dioxide, stabilization of with, 1,275,765
—, ice cream, imitation, made with, 1,212,066
—, ink, indelible, contg., 1,289,793
—, insecticide contg., 1,313,724
—, insect repelling composition contg., 1,270,630
—, insulating material contg., 1,371,016
—, insulation, electric, made with, 1,123,401; 1,236,959
—, —, heat, made with, 1,123,401; 1,169,079; 1,189,780; 1,230,297; 1,428,056
—, —, transparent, contg., 1,428,056
—, iron, galvanized, article, filling for joints of, made with, 1,223,458
—, —, lead coated, made with, 1,505,109
—, —, polishing of, using, 1,216,643
—, —, rust, removal of from, using, 1,216,643
—, iron hardening solution contg., 1,351,961
—, kaolin gauze made with, 1,504,911
—, lactose made with, 1,500,770
—, lampblack, reflocculated, made with, 1,456,112
—, lanolin made with, 1,194,013
—, laundry preparation contg., 1,435,541
—, lead, iron coated with, made with, 1,505,109
—, —, red, reflocculated, made with, 1,456,112
—, lead sulfide ore, flotation of using, 1,203,372
—, —, sphalerite, separation from of, using, 1,203,372
—, —, zinc sulfide ore, separation from of, using, 1,203,372
—, leather, artificial, made with, 1,180,902
—, —, coating for, made with, 1,505,044
—, —, dyeing of using, 1,183,829
—, —, treating of using, 1,183,829
—, —, waterproofing for, made with, 1,223,480
—, leather board made with, 1,128,290; 1,131,039
—, leather-board, waterproof, made with, 1,142,953
—, leather substitute made with, 1,141,545
—, light, pulsations of, record of, made with, 1,213,613; 1,213,614; 1,213,615; 1,213,616
—, lignoprotein hardened with, 1,464,949
—, linseed oil substitute made with, 1,244,777
—, liquid, purification of using, 1,170,868
—, lithopone, reflocculated, made with, 1,456,112
—, lozenge contg., mfr. of, 1,450,865
—, lubricant made with, 1,145,877; 1,181,976
—, lubricating oil, fireproof, made with, 1,181,976
—, mfr. of, alkali earth hydroxide for, 1,256,605
—, —, alkali hydroxide for, 1,256,605
—, —, aluminum ore for, 1,251,057
—, —, aluminum oxide ore for, 1,212,334
—, —, aluminum silicates for, 1,251,057; 1,254,229
—, —, aluminum silicate ore for, 1,212,334
—, —, alunite for, 1,256,605; 1,277,773; 1,279,109
—, —, ammonium hydroxide for, 1,277,773
—, —, apparatus for, 1,457,787
—, —, calcium carbonate for, 1,212,334
—, —, calcium hydroxide for, 1,256,605
—, —, carbon dioxide for, 1,232,553
—, —, clay for, 1,251,057; 1,254,229
—, —, earth for, 1,251,057
—, —, feldspar for, 1,232,553; 1,277,773; 1,279,109
Alum, mfr. of, green sand for, 1,279,109
—, —, hydrochloric acid for, 1,212,334; 1,277,773
—, —, iron ore, Cuban, for, 1,212,334
—, —, iron oxide ore for, 1,212,334
—, —, iron silicate ore for, 1,212,334
—, —, lime for, 1,232,553
—, —, limestone for, 1,212,334
—, —, niter cake for, 1,232,553; 1,254,229
—, —, orthoclase for, 1,277,773
—, —, potassium carbonate for, 1,277,773
—, —, process for, 1,212,334; 1,232,553; 1,251,057; 1,254,229; 1,256,605; 1,277,773; 1,279,109; 1,359,011
—, —, pyrite for, 1,212,334
—, —, sand for, 1,251,057
—, —, silicates for, 1,277,773
—, —, slate for, 1,415,346
—, —, sulfur dioxide for, 1,251,057; 1,256,605;
—, —, sulfuric acid for, 1,212,334; 1,232,553; 1,251,057; 1,277,773; 1,279,109
—, —, tannic acid for, 1,251,057
—, —, tannin for, 1,251,057
—, match made with, 1,168,901
—, meat, imitation, made with, 1,212,066
—, mercury extracted from ores by, 1,402,741; 1,402,742
—, metal article, filling for joints of, made with, 1,223,458
—, methyl acetate, concentration of, using, 1,492,717
—, methyl alcohol, concentration of, using, 1,492,717
—, methyl cellulose, composition of and, 1,505,044
—, mineral matter made with, 1,169,506
—, molded article made with, 1,198,172; 1,519,311
—, molded article, cellulose, water resistant, made with, 1,234,720
—, mortar made with, 1,223,239
—, nail salve contg., 1,513,233
—, *native, see Kalnite*
—, *natural, see Alunogen; Halotrichite*
—, obturating material made with, 1,192,662; 1,235,220
—, ochre, reflocculated, made with, 1,456,112
—, oil, mineral, purification of using, 1,170,868
—, —, vegetable, purification of using, 1,170,868
—, ointment contg., 1,372,496
—, packing made with, 1,151,690; 1,162,371
—, packing, lubricating, made with, 1,145,877
—, paint made with, 1,123,401; 1,177,357; 1,242,480; 1,244,777; 1,347,387; 1,476,016
—, paint, composition for addition to, made with, 1,229,337
—, —, fireproof, made with, 1,248,092
—, paper made with, 1,153,883; 1,166,848; 1,181,967; 1,242,480; 1,357,760; Re-15,311; 1,419,951; 1,502,686
—, paper, coated, made with, 1,147,996; 1,505,044
—, —, fireproof sizing for, made with, 1,248,092
—, —, rubber-latex, made with, 1,497,146
—, —, sizing for, made with, 1,211,288; 1,223,480; 1,229,924; 1,430,035; 1,447,615; 1,512,212; 1,512,213
—, paper board made with, 1,468,959

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Alum, paper grease-proofing mixture contg., 1,417,708
—, paper hardened with, 1,421,195
—, paraffin and soap emulsion precipitated by, 1,367,274
—, paste-board made with, 1,153,883
—, paving made with, 1,460,643
—, pectin product made with, 1,497,884
—, perborate, stabilization of with, 1,275,765
—, petroleum, action on of, 1,252,433
—, petroleum cracked with, 1,274,912
—, phosphorus removed from metals by, 1,437,191
—, photograph, colored, made using, 1,248,139
—, photographic print, fixing of using, 1,224,984
—, photographic print paper made with, 1,329,918
—, photography, color, process for, using, 1,191,941
—, pigment made with, 1,242,480
—, pigment, reflocculated, made with, 1,456,112
—, pigment-oil composition prepared with, 1,431,079
—, pill contg., mfr. of, 1,450,865
—, pipe made with, 1,198,172
—, pitch, action on of, 1,252,433
—, plaster contg., 1,416,684
—, plaster, dental, contg., 1,123,600
—, plaster, waterproofing of, using, 1,242,585
—, plaster of Paris, waterproofing of, using, 1,242,585
—, plaster surfacing composition contg., 1,309,782
—, plastic made with, 1,123,600; 1,180,902; 1,190,815; 1,193,952; 1,194,926; 1,199,251; 1,315,342; 1,466,083; 1,505,044
—, plastic building material contg., 1,344,058
—, polish contg., 1,216,643
—, *potash, see Aluminum potassium sulfate*
—, potassium, cocoanut fiber treated with, 1,421,703
—, —, formation of, 1,430,877
—, —, mfr. of, 1,359,011; 1,396,675
—, —, photographic film hardened with, 1,443,012
—, —, photographic fixing bath contg., 1,411,687
—, —, *see also Potassium aluminum sulfate*
—, potassium sulfate made with, 1,195,655
—, powder contg., mfr. of, 1,450,865
—, print, lithographic, raised dull finish produced on using, 1,123,917
—, printers ink removed from newspaper with, 1,311,563
—, printers ink removed from paper pulp with, 1,311,563
—, printers ink removed from paper stock with, 1,311,563
—, printing plate made with, 1,252,800; 1,496,268
—, projectile retarding material made with, 1,192,662
—, pulp sized with, 1,229,924
—, pyorrhea remedy contg., 1,466,578
—, reflocculated material made with, 1,456,112
—, refractory made with, 1,244,275
—, refrigerator car, interlining for, made with, 1,235,220
Alum, reproduction composition made with, 1,386,995
—, roach repelling composition contg., 1,270,630
—, road paving made with, 1,158,418; 1,198,107; 1,252,433; 1,315,342
—, rodent repelling composition contg., 1,270,630
—, roofing made with, 1,197,307; 1,226,547; 1,519,311
—, rosin deposited into paper stock by, 1,419,951
—, rosin size contg., 1,449,221
—, rubber substitute made with, 1,180,902
—, rug made with, 1,379,703
—, "Satin white" made from, 1,381,991; 1,470,765
—, sausage casing made with, 1,158,400
—, screen, motion picture, made with, 1,151,502
—, sewage, treatment of using, 1,134,280; 1,505,104
—, shingle made with, 1,197,307
—, shoe, box toe, made with, 1,380,865
—, shoe stiffener made with, 1,316,650
—, sienna, reflocculated, made with, 1,456,112
—, silk, artificial, made with, 1,505,044
—, —, —, cellulose nitrate, water resistant, made with, 1,234,720
—, —, —, cuprammonium, water resistant, made with, 1,234,720
—, —, —, viscose, water resistant, made with, 1,234,720
—, —, —, water resistant, made with, 1,234,720
—, —, dyeing of, using, 1,352,014
—, —, waste, spinning of using, 1,232,374
—, silk treated with, 1,332,675; 1,352,014
—, silver, gelatin emulsions of, recovery from of, using, 1,234,390; 1,234,391
—, —, photographic emulsions of, recovery from of, using, 1,234,390; 1,234,391
—, silver bromide, gelatin emulsion of, recovery from of, using, 1,234,391
—, —, photographic emulsions of, recovery from of, using, 1,234,391
—, silver chloride, gelatin emulsions of, recovery from of, using, 1,234,391
—, —, photographic emulsions of, recovery from of, using, 1,234,391
—, size made with, 1,229,924; 1,289,053
—, sizing made with, 1,231,153; 1,276,206; 1,505,044
—, slaughter house effluent, treatment of, using, 1,505,104
—, soap made with, 1,321,516; 1,419,952
—, soap, aluminum, made with, 1,131,578
—, —, shaving, liquid, made with, 1,257,545
—, soap sheets contg., 1,436,929
—, *soda, see Aluminum sodium sulfate*
—, sodium perborate, stabilization of with, 1,275,765
—, sodium sulfate made with, 1,493,945
—, sound, record, made with, 1,213,613; 1,213,614; 1,213,615; 1,213,616
—, sphalerite, galena, separation from of using, 1,203,372
—, —, lead sulfide ore, separation from of, using, 1,203,372
—, starch, fireproof, made with, 1,248,092

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Alum, steel, treatment of using, 1,151,049
—, steel tempering composition contg., 1,296,951
—, stencil, typewriter, made with, 1,316,067
—, stone, artificial made with, 1,466,083; 1,480,867; 1,511,503; 1,511,504
—, sugar, beet, defecating of using, 1,156,060
—, —, cane, defecating of using, 1,156,060
—, —, defecating of using, 1,156,060
—, —, sorghum, defecating of using, 1,156,060
—, sugar solutions, purification of using, 1,170,868
—, sulfur made with, 1,195,655
—, sulfur, reflocculated, made with, 1,456,112
—, sulfuric acid from, 1,415,308
—, tablet contg., mfr. of, 1,450,865
—, tanning with, 1,235,059; 1,415,671; 1,421,723; 1,427,221
—, tanning agent contg., 1,441,243
—, tanning compound made with, 1,271,060; 1,376,805
—, tanning material precipitated from cellulose sulfite liquors with, 1,414,312
—, tanning process using, 1,346,385; 1,413,488; 1,421,723; 1,427,221
—, tanning solution contg., 1,256,718
—, tar, action on of, 1,252,433
—, tent fabrics made with, 1,427,941
—, textile, air-tight, made with, 1,129,268
—, —, artificial, water resistant, made with, 1,234,720
—, —, coating for, made with, 1,505,044
—, —, waterproofing for, made with, 1,129,268; 1,223,480
—, thistledown, spinning of using, 1,232,374
—, thread made with, 1,180,902
—, tile made with, 1,198,172
—, tin article, filling for joints of, made with, 1,223,458
—, tinting composition contg., 1,309,782
—, tire made with, 1,200,296
—, tire filler made with, 1,369,626
—, toluene made with, 1,274,913
—, tooth filling made with, 1,318,254
—, trioxymethylene, cellulose, compound of and, made with, 1,234,720
—, ultramarine blue, reflocculated, made with, 1,456,112
—, underwriters cloth made with, 1,427,941
—, varnish, fireproofing, made with, 1,248,092
—, varnish prepared with, 1,341,080
—, vegetable, imitation, made with, 1,212,066
—, vegetable parchment made with, 1,236,959
—, vessel, packing for watertight compartment of, made with, 1,235,220
—, walls, facing for, made with, 1,505,302
—, wall covering made with, 1,166,325; 1,313,658
—, wall covering, embossed, made with, 1,194,242
—, wall-finishing composition contg., 1,309,782
—, water, purification of using, 1,158,225; 1,170,868; 1,173,698; 1,341,913
—, —, treatment of using, 1,457,503; 1,505,104
—, waterproofing made with, 1,123,401; 1,129,268; 1,180,902; 1,223,480; 1,240,345; 1,242,327; 1,242,585; 1,273,213
—, waterproofing composition contg., 1,390,236
—, waterproofing reagent contg., 1,432,833
Alum, waterproof material made with, 1,236,959
—, water softening compound made with, 1,482,601
—, wick, non-combustible, made with, 1,207,160
—, window cleaning composition contg., 1,449,281
—, wood, fireproofing of, composition contg., 1,126,132
—, —, waterproofing for, made with, 1,223,480
—, wood pulp made with, 1,166,848
—, wood substitute made with, 1,519,311
—, wood treated with, 1,146,212
—, yucca plant fibers prepared with, 1,330,127
—, zinc sulfide ore, galena, separation from of, using, 1,203,372
—, —, lead sulfide ore, separation from of, using, 1,203,372
—, zirconium oxide, reflocculated, made with, 1,456,112
—, *see also Aluminum potassium sulfate; Aluminum sulfate; Alunite; Ammonium aluminum sulfate; Chrome alum; Potassium alum; Potassium aluminum sulfate; Sodium aluminum sulfate*
Alum ammonium, see Ammonium aluminum sulfate
Alum cake, cement contg., 1,334,940
—, mfr. of, 1,388,436
—, *see also Aluminum sulfate*
Alum clay, alkali carbonate impurity in, extraction of, 1,308,429
—, alkali hydroxide impurity in, extraction of, 1,308,429
—, alkali oxide impurity in, extraction of, 1,308,429
—, alkali sulfate impurity in, extraction of, 1,308,429
—, aluminum from, process for, 1,308,429
—, aluminum oxide from, process for, 1,308,429
—, aluminum sulfate from, process for, 1,308,429
—, calcium carbonate impurity in, extraction of, 1,308,429
—, calcium hydroxide impurity in, extraction of, 1,308,429
—, calcium oxide impurity in, extraction of, 1,308,429
—, calcium sulfate impurity in, extraction of, 1,308,429
—, extraction of, redwood tannin for, 1,308,429
—, —, sulfur dioxide and redwood tannin for, 1,308,429
—, —, sulfuric acid and redwood tannin for, 1,308,429
—, —, sulfurous acid and redwood tannin for, 1,308,429
—, iron carbonate impurity in, extraction of, 1,308,429
—, iron hydroxide impurity in, extraction of, 1,308,429
—, iron oxide impurity in, extraction of, 1,308,429
—, iron sulfate impurity in, extraction of, 1,308,429
—, magnesium carbonate impurity in, extraction of, 1,308,429
—, magnesium hydroxide impurity in, extraction of, 1,308,429

Alum clay, magnesium oxide impurity in, extraction of, 1,308,429
—, magnesium sulfate impurity in, extraction of, 1,308,429
—, manganese carbonate impurity in, extraction of, 1,308,429
—, manganese hydroxide impurity in, extraction of, 1,308,429
—, manganese oxide impurity in, extraction of, 1,308,429
—, manganese sulfate impurity in, extraction of, 1,308,429
—, potassium carbonate impurity in, extraction of, 1,308,429
—, potassium hydroxide impurity in, extraction of, 1,308,429
—, potassium oxide impurity in, extraction of, 1,308,429
—, potassium sulfate impurity in, extraction of, 1,308,429
—, sodium carbonate impurity in, extraction of, 1,308,429
—, sodium hydroxide impurity in, extraction of, 1,308,429
—, sodium oxide impurity in, extraction of. 1,308,429
—, sodium sulfate impurity in, extraction of, 1,308,429
—, sulfur dioxide and redwood tannin for, extraction of, 1,308,429
—, sulfuric acid and redwood tannin for extraction of, 1,308,429
—, sulfurous acid and redwood tannin for extraction of, 1,308,429
—, titanium carbonate impurity in, extraction of, 1,308,429
—, titanium hydroxide impurity in, extraction of, 1,308,429
—, titanium oxide impurity in, extraction of, 1,308,429
—, titanium sulfate impurity in, extraction of, 1,308,429
Alumen, see Aluminum potassium sulfate
Alumina, abrasive made with, 1,149,064; 1,161,620; 1,192,709; 1,226,892; 1,240,490; 1,240,491; 1,364,849; 1,442,773
—, abrasive stone made with, 1,483,854
—, abrasive wheel made with, 1,210,358
—, alkali, treatment with of, 1,270,266
—, alkali nitrate, separation of from, 1,494,835
—, alkali soluble, mfr. of, alumina for, 1,137,617
—, —, —, alunite for, 1,137,617
—, —, —, carbon for, 1,137,617
—, —, —, carbon monoxide for, 1,137,617
—, —, —, coke for, 1,137,617
—, —, —, lamp black for, 1,137,617
—, —, —, nitrogen for, 1,137,617
—, —, —, process for, 1,137,617
—, —, —, producer gas for, 1,137,617
—, aluminum made with, 1,490,504; 1,512,462
—, aluminum, melting of using, 1,185,394
—, aluminum alloy made with, 1,512,462
—, aluminum carbide made with, 1,137,617
—, aluminum chloride made with, 1,147,832; 1,217,471; 1,366,626
—, aluminum chloride material made with, 1,512,420
Alumina, aluminum hydroxide made with, 1,493,320
—, aluminum nitride made with, 1,158,899; 1,188,651; 1,212,119; 1,217,842; 1,241,834
—, aluminum nitride (AlN), made with, 1,180,840
—, aluminum oxide made with, 1,180,840
—, aluminum petroleum sulfonates prepared from, 1,438,101
—, ammonia made with, 1,158,899; 1,180,840; 1,198,965
—, ammonia, catalyst for the mfr. of, made with, 1,173,532
—, ammonium nitrate, separation of from, 1,494,835
—, bauxite contg., 1,350,825
—, brazing flux made with, 1,502,144
—, brick made with, 1,463,399
—, brick, fire, made with, 1,209,784
—, —, waterproof, made with, 1,185,555
—, briquet, briquet of, binder for contg., 1,154,980
—, calcium made with, 1,512,462
—, calcium alloy made with, 1,512,462
—, calcium oxide, treatment with of, 1,270,266
—, —, concrete, paint for, made with, 1,220,820
—, —, gasolene made with, 1,494,375
—, —, hydrocarbon, unsaturated, made with, 1,220,820
—, —, kerosene made with, 1,494,375
—, —, linseed oil substitute made with, 1,220,820
—, catalyst, cement, paint for, made with, 1,220,820
—, catalyst for ammonia mfr. made with, 1,173,532
—, catalyst in ammonia oxidation, 1,420,201
—, catalyst carrier, acetone oil made with, 1,158,217
—, —, butyl methyl ketone made with, 1,158,217
—, —, celluloid, solvent for, made with, 1,158,217
—, —, cellulose nitrate, solvent for, made with, 1,158,217
—, —, cordial made with, 1,158,217
—, —, essential oils made with, 1,158,217
—, —, ethyl methyl ketone made with, 1,158,217
—, —, flavoring extracts made with, 1,158,217
—, —, ketone made with, 1,158,217
—, —, liquor made with, 1,158,217
—, —, methyl ketone made with, 1,158,217
—, —, methyl propyl ketone made with, 1,158,217
—, —, resin hydrogenated using, 1,167,264
—, catalyst for hydrogenation of hydrocarbon made with, 1,152,765
—, catalyst for hydrogenation of lamp oil made with, 1,152,765
—, catalyst for hydrogenation of petroleum made with, 1,152,765
—, catalyst for hydrogenation of resin oil made with, 1,152,765
—, catalyst for hydrogenation of shale oil made with, 1,152,765
—, catalyst for nitrogen oxide mfr. made with, 1,211,394; 1,239,125
—, cement made with, 1,209,220; 1,507,379
—, cement, ferric, made with, 1,255,995
—, —, hydraulic, made with, 1,123,964

Alumina, ceramic ware contg., 1,438,598
—, charcoal, briquet of, binder for contg., 1,154,980
—, chromium, nickel alloy wire contg., insulated, made with, 1,233,808
—, cloth, filler for, made with, 1,185,555
—, coal, anthracite, briquet of, binder for contg., 1,154,980
—, —, briquet of, binder for contg., 1,154,980
—, —, lignite, briquet of, binder for contg., 1,154,980
—, coal dust, briquet of, binder for contg., 1,154,980
—, coke, briquet of, binder for contg., 1,154,980
—, —, petroleum, briquetting of, using, 1,236,447
—, copper, iron, joining of and using, 1,181,742
—, —, melting of using, 1,185,394
—, —, steel, joining of and, using, 1,181,741
—, —, tungsten, joining of and using, 1,181,741; 1,181,742
—, cotton, dyeing of, using, 1,199,273
—, *cream of, see Aluminum hydroxide*
—, crucible made with, 1,324,546; 1,381,171
—, crystalline, mfr. of, bauxite for, 1,276,134
—, —, —, chromium oxide for, 1,276,134
—, —, —, clay for, 1,276,134
—, —, —, coke, petroleum, for, 1,276,134
—, —, —, emery for, 1,276,134
—, —, —, iron oxide for, 1,276,134
—, —, —, manganese oxide for, 1,276,134
—, —, —, process for 1,276,134
—, —, refractory made with, 1,289,578
—, *crystalline, see also Abrasive*
—, cuttle-fish substitute made with, 1,476,001
—, dental cement made with, 1,507,379
—, dental moulds made with, 1,476,001
—, dissolving ignited, 1,378,485
—, dolomite refractory made with, 1,463,399
—, dyeing using, 1,199,273
—, fertilizer, made with, 1,518,568; 1,518,569; 1,518,570
—, flooring, tarazzo, contg., 1,371,683; 1,371,684
—, flotation of, process for, 1,255,749
—, furnace lining contg., 1,324,546; 1,440,533
—, furnace tube made with, 1,130,533
—, fused, anti-slipping tile contg., 1,402,296
—, fusion of, alkali compound for, 1,269,141
—, —, iron oxide for, 1,269,141
—, —, process for, 1,269,141
—, —, sodium carbonate for, 1,269,141
—, —, zinc oxide for, 1,269,141
—, gas, purified with material contg., 1,315,836
—, glass made with, 1,130,767; 1,143,732; 1,192,474; 1,510,521
—, glass, opaque, made with, 1,245,487
—, —, translucent, made with, 1,166,922
—, glass composition contg., 1,415,980
—, glass melting pot contg., 1,324,546
—, heater, electric, made with, 1,181,800; 1,200,352; 1,507,379
—, —, —, embedding material for made with, 1,125,615; 1,125,616
—, hide preservative contg., 1,304,030
—, hydrocarbon, hydrogenation of, catalyst for, made with, 1,152,765
—, hydrogenation catalyst made using, 1,152,765
Alumina, insulation, electric, made with, 1,181,800; 1,438,598
—, insulator, electric, made with, 1,233,486
—, iron, copper, joining of and using, 1,181,742
—, —, removal from of, process for, 1,138,190
—, —, tungsten, joining of and using, 1,181,742
—, iron chloride made with, 1,147,832
—, iron ore treated to yield, 1,370,646
—, investment material made with, 1,476,001
—, jewelry made with, 1,476,001
—, kiln lining bricks contg., 1,378,710
—, lake base, 1,431,081
—, lamp oil, hydrogenation of, catalyst for, made with, 1,152,765
—, levigated, strop dressing made with, 1,327,648
—, magnesia article, bonded, made with, 1,394,442
—, magnesium aluminate made with, 1,394,442
—, manganese, nickel alloy wire contg., insulated, made with, 1,233,808
—, manganese slag contg., 1,462,991
—, mfr. of, albite for, 1,508,777
—, —, alkali aluminum silicate for, 1,508,777
—, —, alkali earth oxide for, 1,508,777
—, —, alkali nitrate for, 1,494,835
—, —, alkali silicate for, 1,286,718
—, —, ammonium hydroxide for, 1,494,835
—, —, aluminum nitrate for, 1,494,835
—, —, aluminum oxide ore for, 1,212,334
—, —, aluminum silicate for, 1,148,092
—, —, aluminum silicate ore for, 1,212,334
—, —, apparatus for, 1,202,215
—, —, bauxite for, 1,269,223; 1,269,224; 1,508,777
—, —, calcium carbonate for, 1,212,334; 1,508,777
—, —, calcium chloride for, 1,508,777
—, —, calcium oxide for, 1,508,777
—, —, calcium silicate for, 1,508,777
—, —, carbon for, 1,508,777
—, —, carbon dioxide for, 1,202,215
—, —, clay for, 1,269,223; 1,269,224; 1,508,777
—, —, feldspar for, 1,202,215; 1 286,718; 1,508,777
—, —, hydrochloric acid for, 1,212,334
—, —, iron for, 1,269,224
—, —, iron ore for, 1,486,256
—, —, iron ore, Cuban, for, 1,212,334
—, —, iron oxide for, 1,269,223; 1,269,224
—, —, iron oxide ore for, 1,212,334
—, —, iron silicate ore for, 1,212,334
—, —, leucite for, 1,202,215; 1,286,718; 1,508,777
—, —, lime for, 1,508,777
—, —, limestone for, 1,212,334; 1,508,777
—, —, limonite for, 1,486,256
—, —, magnesium carbonate for, 1,508,777
—, —, magnesium oxide for, 1,508,777
—, —, mica for, 1,286,718
—, —, microcline for, 1,286,718
—, —, muscovite for, 1,202,215
—, —, nephelin syenite for, 1,148,092
—, —, nitric acid for, 1,494,835
—, —, orthoclase for, 1,286,718; 1,508,777
—, —, potash and, 1,404,083
—, —, potassium carbonate for, 1,494,835
—, —, potassium hydroxide for, 1,202,215; 1,286,718; 1,508,777
—, —, process for, 1,148,092; 1,202,215; 1,212,334; 1,255,749; 1,269,223; 1,269,224; 1,286,718; 1,394,854; 1,486,256; 1,494,835; 1,508,777

Alumina, mfr. of, pyrite for, 1,212,334; 1,486,256
—, —, sea water for, 1,486,256
—, —, sericite for, 1,286,718
—, —, silicon dioxide for, 1,269,223; 1,269,224; 1,508,777
—, —, sodium aluminum silicate for, 1,508,777
—, —, sodium carbonate for, 1,269,223; 1,494,835
—, —, sodium chloride for, 1,508,777
—, —, sodium hydroxide for, 1,508,777
—, —, sulfur dioxide for, 1,148,092; 1,286,718
—, —, sulfuric acid for, 1,212,334
—, —, sulfurous acid for, 1,148,092
—, —, titanium dioxide for, 1,269,223; 1,269,224
—, —, zeolite for, 1,508,777
—, —, zinc oxide for, 1,269,223
—, metal, melting of using, 1,185,394
—, nickel alloy wire, chromium in, insulated, made with, 1,233,808
—, —, manganese in, insulated, made with, 1,233,808
—, nickel carbonyl absorbed by, 1,436,662
—, nitrogen, fixation of, using, 1,155,840; 1,198,965
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,211,394; 1,239,125
—, ore, briquet of, binder for contg., 1,154,980
—, porcelain made with, 1,507,379
—, porcelain-molds made with, 1,476,001
—, potassium nitrate, separation of from, 1,494,835
—, petroleum, hydrogenation of, catalyst for, made with, 1,152,765
—, plaster made with, 1,317,680
—, plastic made with, 1,317,680; 1,468,331; 1,507,379
—, precipitating, calcium carbonate for, 1,377,822
—, preparation from alunite, 1,420,201
—, *production of, see Alumina, mfr. of*
—, purification of, flotation process for, 1,255,749
—, pyrometer tube made with, 1,152,428
—, refractory made with, 1,130,533; 1,152,428; 1,227,909; 1,230,430; 1,240,569; 1,267,686; 1,324,546; 1,362,274; 1,362,316; 1,364,849; 1,365,336; 1,394,442; 1,418,648; 1,463,399; 1,473,286; 1,483,507; 1,515,375
—, refractory binder of, 1,418,372
—, resin oil, hydrogenation of, catalyst for, made with, 1,152,765
—, resistance, electric, made with, 1,507,379
—, resister, electric, made with, 1,393,373
—, shale oil, hydrogenation of, catalyst for, made with, 1,152,765
—, silica, mixture of, hydration of, process for, 1,275,705
—, silicon made with, 1,512,462
—, silicon alloy made with, 1,512,462
—, silicon tetrachloride made with, 1,147,832
—, silk, dyeing of, using, 1,199,273
—, sludge sulfonic acid, treatment of with, 1,211,721
—, sodium aluminate made with, 1,136,549
—, sodium carbonate, treatment with of, 1,270,266
—, sodium hydroxide soluble, mfr. of, process for, 1,137,617
Alumina, sodium nitrate, separation of from, 1,494,835
—, spinel, artificial, made with, 1,394,442
—, steel, chrome, scrap, melting of using, 1,185,394
—, —, chrome-nickel, scrap, melting of using, 1,185,394
—, —, chrome-tungsten, scrap, melting of using, 1,185,394
—, —, chromium made with, 1,508,083
—, —, copper, joining of and, using 1,181,741
—, —, magnetic, annealing of using, 1,156,496
—, —, manganese, melting of using, 1,185,394
—, —, nickel, scrap, melting of using, 1,185,394
—, —, rustless, made with, 1,508,211
—, —, silicon, annealing of using, 1,156,496
—, —, —, scrap, melting of using, 1,185,394
—, —, tungsten, joining of and, using, 1,181,741
—, —, —, scrap, melting of using, 1,185,394
—, steel alloy made with, 1,508,083; 1,508,211
—, steel scrap, melting of using, 1,185,394
—, strop dressing contg., 1,327,648
—, sugar, crystallization of, using, 1,228,910
—, sulfur purification by filtration through, 1,331,645
—, tile, anti-slipping, made with, 1,451,562
—, tire filler contg., 1,369,626
—, titanium chloride made with, 1,147,832
—, titanium complex precipitated upon, 1,402,256
—, titanium(ic) oxide product contg., 1,171,542
—, tooth, artificial, made with, 1,133,434
—, treatment of, for abrasive purposes, 1,161,620
—, —, alkali bisulfate for, 1,364,804
—, —, alkali earth bisulfate for, 1,364,804
—, —, hydrochloric acid for, 1,364,804; 1,378,485
—, —, iron(ic) sulfate for, 1,364,804
—, —, nitric acid for, 1,364,804; 1,378,485
—, —, process for, 1,364,804; 1,378,485
—, —, sodium bisulfate for, 1,364,804
—, —, sodium bisulfite for, 1,364,804
—, —, sodium chloride for, 1,364,804
—, —, sodium pyrosulfate for, 1,364,804
—, —, sulfuric acid for, 1,364,804; 1,378,485
—, tungsten, copper, joining of and, using, 1,181,741; 1,181,742
—, —, cutting wheel for, made with, 1,210,358
—, —, iron, joining of and using, 1,181,742
—, —, steel, joining of and, using, 1,181,741
—, water purification with, 1,312,552
—, welding flux made with, 1,502,144
—, wire, insulated, made with, 1,233,808
—, wool, dyeing of, using, 1,199,273
—, zinc, removal from of, 1,154,602
—, zinc smelter fumes contg., 1,154,601
—, *see also Aluminum oxide; Corundum; Emery*
a-Alumina, corundum as, 1,263,708; 1,263,709
—, properties of, 1,263,708
—, ruby as, 1,263,708; 1,263,709
—, sapphire as, 1,263,708; 1,263,709
b-Alumina, abrasive made with, 1,263,708; 1,263,709
—, mfr. of, alkali compound for, 1,263,607; 1,263,708; 1,263,709
—, —, aluminum oxide for, 1,263,607; 1,263,708; 1,263,709

b-Alumina, mfr. of, bauxite for, 1,263,708; 1,263,709
—, —, iron, effect of on, 1,263,607; 1,263,708; 1,263,709
—, —, lithium compound for, 1,263,708
—, —, potassium compound for, 1,263,607; 1,263,708; 1,263,709
—, —, process for, 1,263,607; 1,263,708; 1,263,709
—, —, silica, effect of on, 1,263,607; 1,263,708; 1,263,709
—, —, sodium aluminate for, 1,263,607; 1,263,708; 1,263,709
—, —, sodium compound for, 1,263,607; 1,263,708; 1,263,709
—, —, sodium carbonate for, 1,263,607; 1,263,708; 1,263,709
—, —, sodium chloride for, 1,263,607; 1,263,708; 1,263,709
—, —, sodium hydroxide for, 1,263,607; 1,263,708; 1,263,709
—, —, sodium sulfate for, 1,263,607; 1,263,708; 1,263,709
—, —, titanium dioxide, effect of on, 1,263,607; 1,263,708; 1,263,709
—, properties of, 1,263,708
—, refractory made with, 1,263,708; 1,263,709
Alumina (refractory) article, mfr. of, process for, 1,155,358
Alumina clay, see Clay, alumina
—, *see also Clay*
Alumina crucible, alloy made with, 1,150,113
—, aluminum chloride made with, 1,165,065
—, chromium alloy made with, 1,150,113
—, cobalt alloy made with, 1,150,113
—, iron alloy made with, 1,150,113
Alumina hydrate, see Aluminum hydroxide
Alumina lake, see Lake
"Alumina-silicate," detergent contg., 1,419,625
Aluminate, catalyst carrier, ammonia, oxidation of, using, 1,322,291
—, —, nitrogen oxides, mfr. of, using, 1,322,291
—, cotton, fireproofing of, using, 1,224,204
—, fabric, fireproofing of, using, 1,224,204
—, fireproofing using, 1,224,204
—, mfr. of, alunite for, 1,240,570
—, —, calcium oxide for, 1,240,570
—, —, process for, 1,240,570; 1,376,563
—, paint pigment contg., 1,460,699
—, silicon nitrogen compounds prepared with, 1,415,280
—, zeolite, artificial, made with, 1,193,794
Aluminate-silicate, catalyst, nickel aluminate-silicate made with, 1,256,032
—, *see also Permutite; Zeolite; Zeolite, artificial*
Aluminate solution, copper, removal of from, alkali sulfide for, 1,262,062
—, —, —, process for, 1,262,062
—, —, —, sulfur for, 1,262,062
—, iron, removal of from, alkali sulfide for, 1,262,062
—, —, —, process for, 1,262,062
—, —, —, sulfur for, 1,262,062
—, lead, removal of from alkali sulfide for, 1,262,062
—, —, —, process for, 1,262,062
—, —, —, sulfur for, 1,262,062
—, silica removed from, process for, 1,137,860
Aluminate solution, zinc, removal of from, alkali sulfide for, 1,262,062
—, —, —, process for, 1,262,062
—, —, —, sulfur for, 1,262,062
Alumina white, ink contg., 1,309,292
—, *see also Aluminum hydroxide*
Aluminiferous material, aluminum chloride made with, 1,519,880
—, aluminum oxide made with, 1,519,880
Aluminii acetici liquor, see Aluminum acetate
Aluminocalcium-ferrosilicate, see Calcium ferro-aluminosilicate
"Alumino ferric cake," paper sized with, 1,229,924
—, pulp sized with, 1,229,924
—, size made with, 1,229,924
Alumino silicate, see Zeolite, artificial
—, *hydrated, see Zeolite*
—, —, *see also Zeolite, artificial*
Alumino-silicic acid, zeolite, artificial, made with, 1,499,492
Aluminothermic mixture, see Thermite
Aluminothermic process, see Thermite process
Aluminous abrasive, see Abrasive, mfr. of, aluminum oxide for
Aluminous abrasive fines, spinel artificial, made with, 1,448,010
Aluminous material, treating, process of, 1,457,787
—, —, sodium silicate for, 1,400,495
Aluminous pyroxene, see Augite
Aluminum, abrasive made with, 1,149,064; 1,247,337
—, abrasive from bauxite, iron and 1,448,586
—, acetic acid mfr. apparatus of, 1,410,207
—, acid, treatment with of, 1,130,196
—, acid resistant, mfr. of, acid for, 1,130,196
—, —, —, alkali for, 1,130,196
—, —, —, alkali carbonate for, 1,130,196
—, —, —, aluminum for, 1,130,196
—, —, —, ammonium chloride for, 1,130,196
—, —, —, balsam for, 1,130,196
—, —, —, calcium tartrate for, 1,130,196
—, —, —, chloride for, 1,130,196
—, —, —, copper chloride, ammoniacal, for, 1,130,196
—, —, —, gum-resin for, 1,130,196
—, —, —, iron chloride for, 1,130,196
—, —, —, nitric acid for, 1,130,196
—, —, —, oil, drying, for, 1,310,196
—, —, —, —, mineral, for, 1,130,196
—, —, —, oxygen for, 1,130,196
—, —, —, potassium carbonate for, 1,130,196
—, —, —, process for, 1,130,196
—, —, —, sodium carbonate for, 1,130,196
—, —, —, sodium hydroxide for, 1,130,196
—, —, —, sodium tartrate for, 1,130,196
—, —, —, sulfuric acid for, 1,130,196
—, —, —, tartrate for, 1,130,196
—, —, —, tin chloride for, 1,130,196
—, —, —, zinc acetate, alcoholic, for, 1,130,196
—, —, —, zinc chloride for, 1,130,196
—, adhesive made with, 1,389,084
—, air, liquid, made with, 1,205,477; 1,205,478
—, airplane fabric mending composition made with, 1,389,084
—, airplane propeller made with, 1,304,102

Aluminum, airship fabric painted with dope contg., 1,381,412; 1,381,413
—, alkali, treatment with of, 1,130,196
—, alkali carbonate, treatment with of, 1,130,196
—, alkali earth metal made with, 1,311,378; 1,311,379; 1,311,380
—, alkali oxalate made with, 1,281,118
—, alkali resistant, mfr. of, acid for, 1,130,196
—, —, —, alkali for, 1,130,196
—, —, —, alkali carbonate for, 1,130,196
—, —, —, aluminum for, 1,130,196
—, —, —, ammonium chloride for, 1,130,196
—, —, —, balsams for, 1,130,196
—, —, —, calcium tartrate for, 1,130,196
—, —, —, chloride for, 1,130,196
—, —, —, copper chloride, ammoniacal, for, 1,130,196
—, —, —, gum-resin for, 1,130,196
—, —, —, iron chloride for, 1,130,196
—, —, —, nitric acid for, 1,130,196
—, —, —, oil, drying, for, 1,130,196
—, —, —, —, mineral, for, 1,130,196
—, —, —, oxygen for, 1,130,196
—, —, —, potassium carbonate for, 1,130,196
—, —, —, process for, 1,130,196
—, —, —, sodium carbonate for, 1,130,196
—, —, —, sodium hydroxide for, 1,310,196
—, —, —, sodium tartrate for, 1,130,196
—, —, —, sulfuric acid for, 1,130,196
—, —, —, tartrate for, 1,130,196
—, —, —, tin chloride for, 1,130,196
—, —, —, zinc acetate, alcoholic, for, 1,130,196
—, —, —, zinc chloride for, 1,130,196
—, alloy contg., 1,126,484; 1,134,788; 1,136,670; 1,146,185; 1,147,398; 1,151,160; 1,158,671; 1,162,226; 1,164,997; 1,165,448; 1,168,962; 1,180,996; 1,194,101; 1,196,118; 1,203,180; 1,203,555; 1,212,374; 1,217,578; 1,221,769; 1,224,362; 1,227,569; 1,239,854; 1,248,648; 1,258,261; 1,264,459; 1,273,146; 1,273,762; 1,273,877; 1,276,916; 1,277,046; 1,278,304; 1,280,706; 1,293,426; 1,300,058; 1,310,309; 1,310,310; 1,319,537; 1,321,684; 1,336,081; 1,341,774; 1,344,165; 1,346,190; 1,371,214; 1,376,056; 1,376,062; 1,376,339; 1,385,223; 1,389,097; 1,389,446; 1,400,527; 1,412,280; 1,415,733; 1,424,782; 1,439,865; 1,449,052; 1,453,928; 1,455,651; 1,457,289; 1,461,178; 1,468,828; 1,480,779; 1,480,846; 1,481,782; 1,483,327; 1,485,158; 1,490,696; 1,492,282; 1,493,191; 1,496,269; 1,508,032; 1,509,608; 1,510,242; 1,513,806; 1,514,064
—, alloy, copper and nickel in, 1,305,551
—, —, iron in, 1,305,551
—, —, iron rustproof, contg., 1,317,592; 1,317,593
—, —, melting of scrap, 1,292,582
—, —, Monel metal in, 1,305,551
—, —, nickel and copper in, 1,305,551
—, —, self-disintegrating, contg., 1,421,471
—, alloy coated, mfr. of apparatus for, 1,172,160
—, —, —, hydrochloric acid for, 1,172,160
—, —, —, hydrofluoric acid for, 1,172,160
—, —, —, hydrogen dioxide for, 1,172,160
—, —, —, potassium hydroxide for, 1,172,160
—, —, —, process for, 1,172,160
—, —, —, sodium bicarbonate for, 1,172,160
—, —, —, sodium hydroxide for, 1,172,160
Aluminum, alloy contg., catalyst in hexamethylene-tetramine mfr., 1,408,826
—, —, iron-copper, mfr. of, 1,452,232
—, alloy contg., alkali earth metals and, 1,359,813
—, alloy contg., arsenic and, 1,340,437
—, alloy contg., beryllium and, 1,333,965; 1,359,813
—, alloy contg., calcium-copper and, 1,359,813
—, alloy contg., chromium-tungsten and 1%, 1,375,455
—, alloy contg., copper and, 1,267,669; 1,305,300; 1,387,900
—, alloy contg., copper-calcium and, 1,359,813
—, alloy contg., copper-nickel-iron and, 1,369,818
—, alloy contg., copper-tin-zinc and, 1,446,332
—, alloy contg., copper-titanium and, 1,352,322
—, alloy contg., copper-tungsten and, 1,350,891
—, alloy contg., copper-zinc and, 1,305,300
—, alloy contg., gold-silver-copper palladium and, 1,339,009
—, alloy contg., iron and, formation of, 1,409,017
—, alloy contg., lead and, 1,360,272; 1,360,348
—, alloy contg., lead and, urea for making, 1,362,739
—, alloy contg., magnesium, 1,305,166; 1,329,312; 1,374,968
—, alloy contg., magnesium vanadium and, 1,305,166
—, alloy contg., magnesium zinc and, 1,341,774
—, alloy contg., manganese and, light produced electrolytically with, electrode of, 1,419,360
—, alloy contg., manganese-magnesium-copper-chromium and, 1,365,178
—, alloy contg., manganese-zinc and, 1,358,147
—, alloy contg., silicon and, 1,387,900
—, alloy contg., silicon and mfr. of, 1,410,461
—, alloy contg., uranium and, 1,304,224
—, alloy contg., zinc and, 1,417,348
—, alloy contg., zinc and aluminum chloride from, 1,455,005
—, alloy contg., zinc-copper and, 1,344,165; 1,350,893
—, alloy contg., zinc-copper-iron-magnesium and, 1,352,271; 1,352,272
—, alloy contg., zinc-copper-manganese and, 1,338,826
—, alloy-contg., zinc-copper-manganese-titanium and, 1,335,284
—, alloy contg., zinc-tin and, 1,350,892
—, alloy for cutting tools contg., 1,350,359
—, alloy de-oxidized with, 1,350,166
—, alloying with lead, magnesium for, 1,360,348
—, —, zinc for, 1,360,348
—, allyl chloride made with, 1,477,047
—, alum clay for mfr. of, 1,308,429
—, aluminum, acid-resistant, made with, 1,130,196
—, —, alkali resistant, made with, 1,130,196
—, —, finely divided, made with, 1,480,779
—, —, glass coated with, made with, 1,157,569
—, —, porcelain coated with, made with, 1,157,569
—, —, solder for, contg., 1,145,307; 1,194,101; 1,239,854; 1,344,165
—, —, soldering of, use of, 1,321,454; 1,321,529
—, —, treatment with of, 1,130,196

Aluminum, acid resistant, zirconium alloy contg., made using, 1,248,648
—, aluminum alloy contg., 1,261,987; 1,280,706; 1,326,971; 1,371,214; 1,453,928; 1,518,760
—, aluminum alloy, silicon in, made with, 1,480,779
—, aluminum amalgam from, 1,305,301
—, aluminum anilide from, 1,394,851
—, aluminum bronze contg., 1,300,058; 1,432,289
—, aluminum chloride made with, 1,127,465; 1,165,065; 1,218,588; 1,238,604; 1,241,796; 1,268,015; 1,270,226; 1,308,885; 1,324,143; 1,354,818; 1,375,116; 1,422,560; 1,424,574; 1,474,479; 1,509,605
—, aluminum chloride purified with, 1,269,236
—, aluminum compound made with, 1,229,611
—, aluminum fluoride made with, 1,518,872
—, aluminum hydroxide made with, 1,161,750
—, aluminum hydroxide, colloidal solutions of, made using, 1,514,737
—, aluminum magnesium fluoride, made with, 1,518,872
—, aluminum nitride made with, 1,188,769; 1,188,771
—, aluminum oxide reduced to, 1,379,523
—, aluminum solder contg., 1,323,520; 1,326,971; 1,341,508; 1,415,925; 1,416,924; 1,437,641; 1,466,061
—, aluminum sulfate made with, 1,176,292; 1,229,611
—, aluminum sulfide from sulfur and, 1,318,709
—, aluminum tinning alloy contg., 1,339,710
—, aluminum treated with, 1,130,196
—, amalgamated, hydrogen from, 1,333,404
—, —, mfr. of, mercury(ic) chloride for, 1,323,588
—, —, zinc solutions purified with, 1,429,131
—, 1-amino-4-anilino-2-methyl-anthraquinone made with, 1,394,851
—, ammonia made with, 1,198,965; 1,206,155; 1,229,611
—, ammonia, catalyst for the mfr. of, made with, 1,148,570; 1,206,155; 1,491,588; 1,502,336
—, —, oxidation of in apparatus made of, 1,481,957
—, ammonia from alkaline solutions, air and, 1,328,082
—, ammonia oxidizing apparatus of, 1,426,952
—, ammonium chloride, treatment with of, 1,130,196
—, annealing of, process for, 1,273,706
—, anode connector made of, 1,267,653
—, anthraquinone derivatives made with, 1,394,851
—, 1.4.9.10-anthratetrol made with, 1,504,165
—, arch-support, thermo-electric, made with, 1,344,581
—, arc-welding composition made with, 1,467,825
—, arc-welding electrode contg., core of, 1,363,636
—, arsenic, separation of from, process for, 1,198,095
—, arsenic compounds, marine animal oils, removal from of, using, 1,247,516
—, arsenious acid for slagging alloy of, 1,365,178
—, asbestos cement slate coated with, process for, 1,258,282
Aluminum, asbestos composition coated with, process for, 1,258,282
—, aviation structural material made with, 1,223,322
—, balsams, treatment with of, 1,130,196
—, barrel coated with, 1,154,651
—, battery, dry, made with, 1,366,095; 1,468,574
—, —, storage, made with, 1,366,010
—, battery electrode made with, 1,366,095; 1,415,832
—, bearing made with, 1,185,220
—, bearing metal contg., 1,360,272; 1,360,346; 1,376,339
—, benzene made with apparatus of, 1,282,906
—, benzine made with, 1,325,299
—, benzoic acid sublimed in apparatus made of, 1,489,707
—, beryllium and, producing, 1,464,625
—, beta-ray filtered from gamma ray using a screen of, 1,288,048
—, binder made with, 1,409,275
—, bivinyl made with apparatus of, 1,282,906
—, blasting cap made with, 1,518,611
—, blasting cartridge made with, 1,226,833; 1,493,921
—, blasting detonator constructed of, 1,438,431
—, boat mending composition made with, 1,389,084
—, boron and, producing, 1,464,625
—, brake shoe made with, 1,168,810
—, brass, alloy (superficial) of and, mfr. of, apparatus for, 1,224,340
—, —, —, —, process for, 1,224,339; 1,224,340
—, —, coating with of, apparatus for, 1,224,340
—, —, —, process for, 1,224,339; 1,224,340
—, brass plated, mfr. of, aluminum, zinc plated, for, 1,147,718
—, —, —, process for, 1,147,718
—, brazing flux made with, 1,502,144
—, bread, sterilization of using, 1,200,651
—, brick coated with, process for, 1,258,282
—, bronze powder of, asphalt coated metals covered with, 1,418,347
—, bronzing paint made with, 1,158,962
—, brush, electric, made with, 1,222,999
—, —, electric generator, made with, 1,366,095
—, bullet, impact illuminating, made with, 1,242,879
—, calcium in, alloy made with, 1,321,684
—, —, chromium made with, 1,321,684
—, —, ferro-alloy made with, 1,321,684
—, —, ferro-chromium made with, 1,321,684
—, —, ferro-titanium made with, 1,321,684
—, —, ferro-tungsten made with, 1,321,684
—, —, ferro-vanadium made with, 1,321,684
—, —, manganese made with, 1,321,684
—, —, metal made with, 1,321,684
—, —, metal alloy made with, 1,321,684
—, —, tungsten made with, 1,321,684
—, calcium carbide made with, 1,225,396
—, calcium phosphide made with, 1,225,396
—, calcium tartrate, treatment with of, 1,130,196
—, camphor made with, 1,458,993
—, carbon in ferro-titanium reduced by, 1,374,036
—, carbon monoxide made with, 1,225,396
—, case hardening using, 1,518,607

Aluminum, casting of, aluminum oxide apparatus for, 1,514,151
—, —, apparatus for, 1,215,243; 1,514,151; 1,518,190
—, —, argon for, 1,514,151
—, —, carbon mold for, 1,172,506
—, —, graphite and sand mold for, 1,172,506
—, —, graphite mold for, 1,172,506
—, —, hydrogen for, 1,514,151
—, —, iron mold for, 1,172,506
—, —, magnesium oxide for, 1,514,151
—, —, mold coating composition for, mfr. of, charcoal for, 1,218,394
—, —, —, —, clay, pipe, for, 1,218,394
—, —, —, —, coke dust for, 1,218,384
—, —, —, —, dextrin for, 1,218,394
—, —, —, —, flour paste for, 1,218,394
—, —, —, —, process for, 1,218,394
—, —, —, —, starch for, 1,218,394
—, —, preparing, 1,416,412
—, —, process for, 1,172.506; 1,215,243; 1,514,151; 1,518,190
—, —, sand mold for, 1,172,506
—, catalyst made with, 1,162,404; 1,502,260
—, catalyst, acenaphthene oxidation of using, 1,439,500
—, —, aluminum chloride made with, 1,477,058
—, —, ammonia oxidation by means of, 1,452,145
—, —, ammonium made with, 1,256,273
—, —, ammonium sulfate made with, 1,256,273
—, —, benzine made with, 1,325,299
—, —, cyanide made with, 1,256,272
—, —, ester gum made with, 1,242,161
—, —, fat, edible, made with, 1,505,560
—, —, formaldehyde made with, 1,383,059
—, —, gasolene made with, 1,235,523; 1,494,125
—, —, hydrocarbon cracked with, made with, 1,168,404
—, —, hydrocyanic acid made with, 1,492,193; 1,492,194
—, —, kerosene made with, 1,235,523
—, —, lard artificial made with, 1,505,560
—, —, lubricating oil made with, 1,350,814
—, —, margarine made with, 1,505,560
—, —, methyl alcohol oxidation of using, 1,383,059
—, —, oil, chlorinated, dechlorizing of using, 1,384,423; 1,384,447
—, —, paint made with, 1,242,161
—, —, potassium cyanide made with, 1,256, 272
—, —, propylene made with, 1,134,677
—, —, sodium cyanide made with, 1,256,272
—, —, varnish made with, 1,242,161
—, catalyst for ammonia mfr. made with, 1,148,570; 1,206,155; 1,491,588; 1,502,336
—, catalyst poisons, marine animal oils, removal from of using, 1,247,516
—, catalyst promoter, 1,271,013
—, —, ammonia made with, 1,148,570; 1,152,930
—, catalyst for propene mfr. made with, 1,202,385
—, cathodes made with, 1,403,065; 1,468,838; 1,470,883
—, cement, composition contg., coated with, process for, 1,258,282
—, —, hydraulic, made with, 1,123,964
—, cerium and, producing, 1,464,625
Aluminum, chemical rectifier electrodes of, 1,409,383
—, chloride, treatment with of, 1,130,196
—, chlorine compounds, marine animal oils, removal from of using, 1,247,516
—, chlorine detected with, 1,298,552; 1,298,553; 1,298,554
—, 3-chlor-propene made with, 1,180,497
—, chromite reduced with, 1,432,289
—, chromite reducing agent, 1,430,878
—, chromium made with, 1,277,035; 1,321,684
—, chromium, alloy of, mfr. of, 1,453,254
—, —, iron alloy contg., made with, 1,432,289
—, —, producing 1,464,625
—, —, tungsten alloy contg., made with, 1,235,969
—, chromium alloy, iron in, made with, 1,346,187
—, chromium introduced into iron alloys by mixture contg., 1,386,981
—, chromium ores reduced by, 1,346,728
—, chromium oxide, action of on, 1,346,728
—, —, green, made with, 1,158,379
—, chromium oxide reduced by, 1,448,036; 1,458,568
—, chromium(ic) oxide reduced by, 1,422,703
—, chromium prevented from oxidizing by, 1,365,499
—, chromium trioxide reduced to lower oxide by, 1,448,036
—, cinematograph film printed from, 1,420,673
—, cinematograph film printed from ribbon of, 1,408,312; 1,408,313; 1,408,314; 1,408,315
—, circuit-breaker made with, 1,366,095
—, clay, mfr. of, electric process for, 1,329,315
—, cleaner for, 1,253,353
—, cleaning of, 1,457,149
—, cleaning composition for, 1,456,486
—, —, ammonium chloride in, 1,456,486
—, —, flour in, 1,456,486
—, —, oxalic acid in, 1,456,486
—, —, pumice in, 1,456,486
—, —, rottenstone in, 1,456,486
—, —, soap, castile, in, 1,456,486
—, —, sodium bicarbonate in, 1,456,486
—, —, tragacanth in, 1,456,486
—, —, zinc oxide in, 1,456,486
—, coating of, aluminum hydroxide for, 1,451,755
—, —, copper cyanide for, 1,515,658
—, —, metals for, 1,370,967
—, —, potassium sulfide for, 1,515,658
—, —, process for, 1,515,658
—, —, salts for, 1,370,967
—, —, silver nitrate for, 1,515,658
—, —, sodium carbonate for, 1,515,658
—, —, treatment of surface for, acid for, 1,144,000
—, —, —, alkali for, 1,144,000
—, —, —, alkali hydroxide for, 1,144,000
—, —, —, alum for, 1,144,000
—, —, —, aluminum salt for, 1,144,000
—, —, —, ammonium aluminum sulfate for, 1,144,000
—, —, —, metal fluoride for, 1,144,000
—, —, —, nitric acid for, 1,144,000
—, —, —, potash for, 1,144,000
—, —, —, process for, 1,144,000
—, —, —, soda for, 1,144,000

Aluminum, coating of, treatment of surface for, sulfuric acid for, 1,444,000
—, —, —, tin chloride for, 1,144,000
—, —, —, tin salt for, 1,144,000
—, coating iron with, 1,381,085
—, coating iron retorts with, 1,454,708
—, coating material with, air for, 1,179,762
—, —, apparatus for, 1,179,762
—, —, process for, 1,179,762
—, coating material with spray of, 1,128,058; 1,128,059
—, coating with tin, substrata of other metals for permitting, 1,332,307
—, cobalt made with, 1,195,607
—, cobalt, coating with of, process for, 1,130,196
—, —, producing of, 1,464,625
—, —, zirconium alloy contg., made with, 1,248,648
—, cobalt alloy contg., 1,203,180; 1,203,555; 1,376,056; 1,376,062; 1,513,806
—, cod oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of using, 1,247,516
—, colloidal, decolorizing by carbon and, 1,447,452
—, —, mfr. of, acacia for, 1,491,250
—, —, —, albumen for, 1,491,250
—, —, —, albumose for, 1,491,250
—, —, —, aluminum electrode for, 1,491,250
—, —, —, hydrazine for, 1,491,250
—, —, —, hydroxylamine for, 1,491,250
—, —, —, process for, 1,491,250
—, —, —, pyrocatechol for, 1,491,250
—, —, —, pyrogallol for, 1,491,250
—, —, —, sodium hyposulfite for, 1,491,250
—, colloidal solutions made using, 1,514,737
—, colloidal suspensions made with,, 1,499,600
—, color lake contg., 1,434,619
—, columbium and, producing, 1,464,625
—, columbium, zirconium alloy contg., made using, 1,248,648
—, coke made with, 1,482,438
—, concrete coated with, 1,154,651
—, condenser, corrosion reduced of, using, 1,238,574
—, condenser electrode of, 1,255,391; 1,326,297
—, container coated with, 1,154,651
—, cooler, corrosion reduced of, using, 1,238,574
—, copper made with, 1,183,086
—, copper alloy made with, 1,321,684
—, copper, alloy (superficial) of and, mfr. of, apparatus for, 1,224,340
—, —, —, —, process for, 1,224,339; 1,224,340
—, —, chromium made with, 1,321,684
—, —, coating with of, apparatus for, 1,224,340
—, —, —, process for, 1,224,339; 1,224,340; 1,515,658
—, —, ferro-alloy made with, 1,321,684
—, —, ferro-chromium made with, 1,321,684
—, —, ferro-titanium made with, 1,321,684
—, —, ferro-tungsten made with, 1,321,684
—, —, ferro-vanadium made with, 1,321,684
—, —, iron, alloy of, mfr. of, 1,453,254
—, —, —, compound body of and made using, 1,180,248
—, —, iron coated with, made with, 1,244,414
—, —, manganese made with, 1,321,684
Aluminum, apparatus for, metal made with, 1,321,684
—, —, metal alloy made with, 1,321,684
—, —, metal coated with, made with, 1,244,414
—, —, producing of, 1,464,625
—, —, separation from of, process for, 1,275,374
—, —, steel, compound body of and made using, 1,180,248
—, —, steel coated with, made with, 1,244,414
—, —, tungsten made with, 1,321,684
—, —, welding of and, process for, 1,196,744
—, copper alloy contg., 1,126,484; 1,168,962; 1,171,856; 1,180,996; 1,217,578; 1,264,459; 1,481,782; 1,496,269; 1,509,608; 1,510,242
—, —, copper, steel, uniting of and, using, 1,511,194; 1,511,195
—, —, steel, copper, uniting of and, using, 1,511,194; 1,511,195
—, copper cathode made with, 1,468,838
—, copper chloride, ammoniacal, treatment with of, 1,130,196
—, copper coated with, 1,154,651; 1,456,274
—, —, mfr. of, aluminum chloride for, 1,155,974
—, —, —, aluminum powder for, 1,155,974
—, —, —, graphite for, 1,155,974
—, —, —, process for, 1,155,974
—, —, —, zinc for, 1,155,974
—, copper compound made with, 1,229,611
—, copper compounds and, cyanamide made with, 1,363,096
—, copper plated on, 1,332,307; 1,372,290
—, copper plated, aluminum, nickel plated, made with, 1,147,718
—, —, mfr. of, aluminum, zinc plated, for, 1,147,718
—, —, —, process for, 1,147,718
—, copper plating, 1,387,426; 1,457,149
—, —, preliminary treatment for, 1,387,426
—, copper precipitated from cyanide solutions by, 1,361,459
—, copper treated with, 1,346,062
—, copper wire coated with, insulator for, mfr. of, mercury for, 1,323,236
—, —, —, —, potassium permanganate for, 1,323,236
—, —, —, —, process for, 1,323,236
—, —, —, —, sodium permanganate for, 1,323,236
—, —, —, —, sulfuric acid for, 1,323,236
—, cork coated with, mfr. of, alcohol for, 1,376,737
—, —, —, apparatus for, 1,376,737
—, —, —, beeswax for, 1,376,737
—, —, —, benzine for, 1,376,737
—, —, —, copal for, 1,376,737
—, —, —, paraffin for, 1,376,737
—, —, —, process for, 1,376,737
—, —, —, shellac for, 1,376,737
—, —, —, tallow for, 1,376,737
—, —, —, varnish for, 1,376,737
—, corn oil, hydrogenation of, using, 1,247,516
—, corundum made with, 1,314,835
—, cotton seed oil, hydrogenation of, using, 1,247,516
—, crucible, clay, made with, 1,374,910
—, —, graphite, made with, 1,374,909; 1,374,910
—, cutting implements, alloy for, contg., 1,376,056
—, cyanides made with, 1,206,155

Aluminum, cyanides, ore dissolved in, treatment of with, 1,136,872
—, cyanide derivatives, marine animal oils, removal from of, using, 1,247,516
—, dart, incendiary, made with, 1,181,278
—, decorating of, enamels for, 1,346,475
—, —, ink, lustrous, for, 1,210,637
—, —, lacquer for, 1,210,637
—, —, process for, 1,210,637
—, —, shellac for, 1,210,637
—, —, varnish for, 1,210,637
—, dental alloy contg., 1,164,997; 1,175,655
—, de-oxidizing, alkali-earth metals for, 1,348,458
—, detonator made with, 1,438,431
—, Devarda's alloy contg., 1,221,077
—, diaphragm made with, 1,366,095
—, diaphragm, phonograph, made with, 1,459,803
—, —, sound reproducing, made with, 1,459,803; 1,495,515
—, dichlorethylene made with, 1,419,969
—, *s*-dichlor-ethylene made with, 1,419,969
—, diolefin made with apparatus of, 1,282,906
—, disinfectant contg., 1,143,295
—, drying oil made with, 1,254,866
—, dye lake contg., 1,383,710
—, electrical conductors of, 1,429,441
—, electrodes of, 1,333,700; 1,344,752; 1,344,753; 1,371,997; 1,388,874; 1,390,505; 1,390,575
—, electrode, arc lamp, made with, 1,241,270
—, —, arc-light, made with, 1,151,160
—, —, carbon, protective coating for of, 1,314,603
—, —, electric furnace, protective coating for of, 1,314,603
—, —, graphite, protective coating for of, 1,314,603
—, —, waterproofing by means of, 1,374,122
—, —, welding, made with, 1,241,899; 1,314,273; 1,363,636
—, electrode for electrolytic oscillator of, 1,329,761
—, electrodes for zinc electrodeposition consisting of, 1,347,189
—, electrodeposition of from solutions in oleum, 1,351,144
—, electrolytic cell contg., plates of, 1,387,471
—, electrolytic plate of, 1,348,206; 1,348,207
—, electrolytic potential of, 1,397,514
—, electrolytic rectifier electrode of. 1,433,736
—, electro-plating of, alcohol for, 1,256,954
—, —, ammonium nickel sulfate for, 1,256,954
—, —, boric acid for, 1,256,954
—, —, carbon bisulfide for, 1,256,954
—, —, citric acid for, 1,256,954
—, —, nitric acid for, 1,256,954
—, —, oxalic acid for, 1,256,954
—, —, petroleum for, 1,256,954
—, —, process for, 1,214,271; 1,256,954
—, —, sodium bicarbonate for, 1,256,954
—, —, sodium carbonate for, 1,256,954
—, —, sodium hydroxide for, 1,256,954
—, —, sodium nitrate for, 1,256,954
—, eliminating from scrap brass, 1,375,930
—, emulsion of, milk, artificial, from, 1,297,668
—, enamel for, mfr. of, acacia for, 1,230,958
—, —, —, bismuth oxide for, 1,230,958
—, —, —, borax for, 1,230,958
Aluminum, enamel for, mfr. of, glass, powdered, for, 1,230,958
—, —, —, lead, red, for, 1,230,958
—, —, —, process for, 1,230,958
—, —, —, silica for, 1,230,958
—, —, —, varnish for, 1,230,958
—, enameled, substitute for, 1,289,215
—, engine, internal combustion, made with castings of, 1,226,595
—, —, —, cylinder for, made with, 1,309,182
—, ethane made with apparatus of, 1,282,906
—, ethylene made with apparatus of, 1,282,906
—, explosive made with, 1,301,646; 1,334,303; 1,393,984; 1,397,826; 1,404,653; 1,409,963; 1,410,868; 1,420,364; 1,430,272; 1,493,921; 1,496,914; 1,509,393
—, explosive of liquid air and, 1,375,243
—, eyelet made with, 1,188,422
—, fabric, bullet-proof, made with, 1,309,620
—, —, gas-proof, made with, 1,309,620
—, —, water-proof, made with, 1,309,620
—, fabric coated with, mfr. of, alcohol for, 1,376,737
—, —, —, apparatus for 1,376,737
—, —, —, beeswax for, 1,376,737
—, —, —, benzine for, 1,376,737
—, —, —, copal for, 1,376,737
—, —, —, paraffin for, 1,376,737
—, —, —, process for, 1,376,737
—, —, —, shellac for, 1,376,737
—, —, —, tallow for, 1,376,737
—, —, —, varnish for, 1,376,737
—, fat, catalyst poison, removal of from using, 1,132,710
—, fat hydrogenated with, 1,472,882
—, fatty acid hydrogenated with, 1,472,882
—, felt coated with, process for, 1,258,282
—, ferric sulfate reduced with, 1,300,417; 1,300,418
—, ferro-alloy made with, 1,318,764; 1,321,684; 1,325,455
—, ferro-chromium made with, 1,136,669; 1,318,764; 1,321,684; 1,386,981; 1,511,628
—, ferro-manganese made with, 1,318,764
—, ferro-manganese castings prevented from cracking by, 1,361,036
—, ferro-titanium made with, 1,318,764; 1,321,684; 1,374,036
—, ferro-titanium decarbonized using, 1,374,036
—, ferro-tungsten made with, 1,235,969; 1,321,684
—, ferro-vanadium made with, 1,277,035; 1,318,764; 1,321,684; 1,435,742
—, fertilizer made with, 1,225,396
—, fertilizer conditioned with, 1,418,618
—, filament, electric light, made with, 1,151,160
—, filling composition contg., graphite, shellac and, 1,341,540
—, finely divided, aluminum, iron coated with, made with, 1,480,779
—, —, —, steel coated with, 1,480,779
—, —, iron, aluminum coated, made with, 1,480,779
—, —, mfr. of, aluminum for, 1,480,779
—, —, —, chromium for, 1,480,779
—, —, —, ferro-silicon for, 1,480,779
—, —, —, nickel for, 1,480,779

Aluminum, finely divided, mfr. of, process for, 1,480,779
—, —, —, rare earth metal for, 1,480,779
—, —, —, silicon for, 1,480,779
—, —, metal made with, 1,480,779
—, —, preparation of, electrolytic process for 1,397,008
—, —, production of using, 1,480,779
—, —, steel, aluminum coated, made with, 1,480,779
—, fire-cracker contg., 1,253,597
—, fire-works made with, 1,145,421
—, fish oil, catalyst poison, removal of from using, 1,132,710; 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, flash light cartridge made with, 1,166,265
—, flash light powder made with, 1,240,027
—, flux for, sodium chloride as, 1,519,204
—, flux for electrodes contg., 1,339,515
—, food product, sterilization of using, 1,200,651
—, formaldehyde container of, 1,440,571
—, formaldehyde-sulfurous acid, aluminum salts of, made with, 1,149,712
—, formates made with, 1,206,155
—, formation of, aluminum silicide (Al_4Si_3), for, 1,123,585; 1,154,800
—, fuel tank, self-sealing, made with, 1,436,985
—, furnace lining made with, 1,135,182
—, gaskets made with, 1,409,275; 1,409,276
—, gaskets material contg., 1,409,275; 1,409,276; 1,409,277
—, gas mantle made with, 1,123,869
—, gasolene made with, 1,127,465; 1,482,438
—, gasolene made with apparatus of, 1,282,906
—, gelatin (photography), treatment of, using, 1,499,600
—, German silver contg., 1,227,569
—, glass, aluminum coated, made with, 1,157,569
—, glass coated with, mfr. of, aluminum for, 1,157,569
—, —, —, hydrofluoric acid for, 1,157,569
—, —, —, hydrogen dioxide for, 1,157,569
—, —, —, process for, 1,157,569
—, —, —, sodium bicarbonate for, 1,157,569
—, glycerol made with, 1,180,497
—, gold, coating with of, process for, 1,515,658
—, —, recovery of using, 1,205,207
—, gold coated, mfr. of, gold chloride for, 1,208,507
—, —, —, potassium bitartrate for, 1,208,507
—, —, —, potassium cyanide for, 1,208,507
—, —, —, potassium iodide for, 1,208,507
—, —, —, process for, 1,208,507
—, gold precipitated from cyanide solution with, 1,323,588; 1,361,459
—, gold production of using, 1,177,396; 1,183,086; 1,184,456; 1,195,607; 1,492,283
—, gold alloy contg., 1,165,448
—, gold substitute contg., 1,319,537
—, golf ball, mold for, made with, 1,491,816
—, granulating, 1,327,743
—, graphic reproduction by means of lines on glass made with, 1,365,058
—, gum-resin, treatment with of, 1,130,196
—, gypsum, composition contg., coated with, process for, 1,258,282
Aluminum, hardening, gum-glutin, oyster shell and gum arabic for, 1,336,420
—, heater, chemical, made with, 1,506,322 1,506,323
—, heat producing compound contg., 1,129,056; 1,143,295
—, heat producing mixture contg., iron oxide and, 1,417,075
—, heel of, 1,366,981
—, horseshoe made with, 1,175,624
—, hydroazoic acid, action of on, 1,453,976
—, hydrocarbon, cracking of, catalyst for, made with, 1,168,404
—, hydrocarbon burner, made with, 1,216,578
—, hydrochloric acid, action of on, 1,464,625
—, hydrochloric acid plants constructed of, 1,454,945
—, hydrogen made with, 1,276,487; 1,506,323
—, hydrogen from acids and, 1,333,404
—, hydrogen from alkalis and, 1,333,404
—, hydrogenation process using, 1,247,516; 1,472,882
—, hypodermic solutions, container for, made with, 1,189,465
—, incendiary composition contg., 1,308,463
—, infra red ray, generator for, made with, 1,519,555
—, ink, transfer contg., 1,398,770
—, insulating, aluminum hydroxide for, process for, 1,451,755
—, insulating surface on, producing of, 1,429,441
—, insulation, electric, for, mfr. of, acid for, 1,137,986
—, —, —, —, —, alcohol for, 1,137,986
—, —, —, —, —, alkali for, 1,137,986
—, —, —, —, —, benzine for, 1,137,986
—, —, —, —, —, india-rubber for, 1,137,986
—, —, —, —, —, oil, rancid, for, 1,137,986
—, —, —, —, —, oleic acid for, 1,137,986
—, —, —, —, —, oxidizing material for, 1,137,986
—, —, —, —, —, phenols for, 1,137,986
—, —, —, —, —, pitch for, 1,137,986
—, —, —, —, —, process for, 1,137,986
—, —, —, —, —, resin for, 1,137,986
—, —, —, —, —, rubber cement for, 1,137,986
—, —, —, —, —, tar for, 1,137,986
—, —, —, —, —, varnish for, 1,137,986
—, —, —, —, —, water for, 1,137,986
—, —, —, —, —, wax for, 1,137,986
—, —, heat, made using, 1,428,056
—, insulator, electric, made with, 1,323,236
—, iodine compounds, marine animal oils, removal from of using, 1,247,516
—, iron contg., 1,213,806; 1,396,276; 1,428,061
—, iron, action of on, 1,456,274
—, iron, alloy made with, 1,321,684
—, —, alloy (superficial) of and, mfr. of, apparatus for, 1,224,340
—, —, —, —, process for, 1,224,339; 1,224,340
—, —, arc-welding of, flux contg., 1,323,768
—, —, "calorized," made using, 1,398,960
—, —, cast, impregnation of with, 1,511,063
—, —, casting of using, 1,150,401
—, —, chromium made with, 1,321,684
—, —, coating of using, 1,156,169
—, —, coating of with, apparatus for, 1,224,340
—, —, —, process for, 1,224,339; 1,224,340

Aluminum, iron, compound body of and, mfr. of, process for, 1,180,248; 1,180,249
—, —, copper, compound body of and made using, 1,180,248
—, —, copper coated, made with, 1,244,414
—, —, desulfurizing of, using, 1,471,401
—, —, ferro-alloy made with, 1,321,684
—, —, ferro-chromium made with, 1,321,684
—, —, ferro-titanium made with, 1,321,684
—, —, ferro-tungsten made with, 1,321,684
—, —, ferro-vanadium made with, 1,321,684
—, —, magnetic, contg., 1,277,523; 1,277,524
—, —, manganese made with, 1,321,684
—, —, metal made with, 1,321,684
—, —, metal alloy made with, 1,321,684
—, —, polishing of, using, 1,216,643
—, —, producing, 1,464,625
—, —, protection from corrosion of, using, 1,512,557
—, —, rust, removal of from, using, 1,216,643
—, —, rust-proofing of with, 1,254,263; 1,254,264
—, —, tungsten made with, 1,321,684
—, —, zinc, removal from of, using, 1,515,140
—, —, zinc alloy, removal from of using, 1,515,140
—, —, zinc coated, made with, 1,244,414
—, —, zirconium alloy contg., made with, 1,248,648
—, iron alloy contg., 1,128,726; 1,136,670; 1,211,826; 1,378,941; 1,493,191; 1,508,032
—, iron alloy, chromium in, made with, 1,346,187; 1,432,289
—, —, explosive contg., 1,410,868
—, —, mfr. of, carbon for, 1,190,678
—, —, —, ferro-aluminum for, 1,190,678
—, —, —, franklinite clinker for, 1,190,678
—, —, —, iron for, 1,190,678
—, —, —, manganese ore, Brazilian, for, 1,190,678
—, —, —, process for, 1,190,678
—, —, —, steel for, 1,190,678
—, —, —, willemite clinker for, 1,190,678
—, —, —, zinc smelter clinker for, 1,190,678
—, —, zirconium in, made with, 1,151,160
—, iron boro-silicate for agglomerating iron oxide and, 1,381,748
—, iron chloride, treatment with of, 1,130,196
—, iron coated with, 1,154,651; 1,381,085; 1,456,274
—, —, mfr. of, aluminum, finely divided, for, 1,480,779
—, —, —, aluminum powder for, 1,155,974
—, —, —, ammonium chloride for, 1,155,974
—, —, —, apparatus for, 1,165,920; 1,172,160
—, —, —, graphite for, 1,155,974
—, —, —, hydrochloric acid for, 1,165,338; 1,172,160
—, —, —, hydrofluoric acid for, 1,172,160
—, —, —, hydrogen for, 1,480,779
—, —, —, hydrogen dioxide for, 1,165,338; 1,172,160
—, —, —, magnesium carbonate for, 1,165,338
—, —, —, potassium chlorate for, 1,165,338
—, —, —, potassium hydroxide for, 1,165,338; 1,172,160
—, —, —, potassium permanganate for, 1,165,338
—, —, —, process for, 1,155,974; 1,165,338; 1,165,920; 1,172,160; 1,480,779
Aluminum, iron-coated with, mfr. of, sodium bicarbonate for, 1,165,338; 1,172,160
—, —, —, sodium hydroxide for, 1,165,338; 1,172,160
—, —, —, tin for, 1,165,920
—, —, —, zinc for, 1,155,974; 1,165,920
—, —, preparing, 1,409,017
—, —, *see also Iron "calorized"*
—, iron coated with chromium by aid of, 1,365,499
—, iron compounds and, cyanamides made with, 1,363,096
—, iron deoxidized by, 1,347,741; 1,371,401
—, *iron garnet, see Almandite*
—, iron improved by addition of silicon alloy of, 1,396,276
—, iron ore contg., 1,403,237
—, —, extraction of from, 1,370,646
—, iron oxide and, cyanamide made with, 1,363,096
—, —, welding made with, 1,381,748
—, iron oxide removed from barium chloride steel heating bath by, 1,454,214
—, iron plated on, 1,332,307
—, iron treated with, 1,346,062
—, iron(ous) vanadate made with, 1,129,253
—, iron(ous) vanadate, phosphorus removed from using, 1,129,253
—, iron vanadium oxide made with, 1,129,253
—, isoprene made with apparatus of, 1,282,906
—, jointing compound made with, 1,420,908
—, kerosene made with, 1,127,465; 1,482,438
—, kerosene made with apparatus of, 1,282,906
—, kerosene burner made with, 1,216,578
—, lamp, gaseous conduction, made with, 1,517,466
—, lanthanum and, producing, 1,464,625
—, lead, electrolytic, deposition of on, process for, 1,306,479
—, lead, production of using, 1,480,110; 1,480,439
—, lead alloy contg., 1,158,671; 1,360,272; 1,360,346; 1,360,348
—, lead azide, action of on, 1,453,976
—, lead coated, mfr. of, apparatus for, 1,172,160
—, —, —, hydrochloric acid for, 1,172,160
—, —, —, hydrofluoric acid for, 1,172,160
—, —, —, hydrogen dioxide for, 1,172,160
—, —, —, potassium hydroxide for, 1,172,160
—, —, —, process for, 1,172,160
—, —, —, sodium bicarbonate for, 1,172,160
—, —, —, sodium hydroxide for, 1,172,160
—, —, storage battery plate of, 1,362,739
—, lead compounds and, cyanamide made with, 1,363,096
—, leather substitute made with, 1,409,275; 1,409,276
—, lepidolite ingredient, 1,430,877
—, leucite constituent, 1,417,831
—, lighter wick contg., 1,430,543
—, lightning arrester, electrode for, made with, 1,255,391; 1,326,297; 1,366,095; 1,488,936
—, lime, composition contg., coated with, process for, 1,258,282
—, limestone for precipitating from solution, 1,370,646
—, linoleum, drying oil for, made with, 1,254,866

Aluminum, linseed oil substitute made with, 1,254,866; 1,384,447
—, liquid air explosive contg., 1,440,041; 1,441,957
—, lithographic plate made with, 1,155,352; 1,163,167
—, lubricating oil made with, 1,127,465
—, lute, contg., 1,263,398
—, luting contg., 1,364,224
—, magnesium made with, 1,311,378; 1,311,379; 1,311,380
—, magnesium, alloy made with, 1,321,684
—, —, chromium made with, 1,321,684
—, —, ferro-alloy made with, 1,321,684
—, —, ferro-chromium made with, 1,321,684
—, —, ferro-titanium made with, 1,321,684
—, —, ferro-tungsten made with, 1,321,684
—, —, ferro-vanadium made with, 1,321,684
—, —, manganese made with, 1,321,684
—, —, metal made with, 1,321,684
—, —, metal alloy made with, 1,321,684
—, —, tungsten made with, 1,321,684
—, magnesium alloy contg., 1,341,774
—, —, *see also Electron metal*
—, magnesium oxide reduced by, 1,379,886
—, manganese made with, 1,277,035; 1,321,684
—, manganese and, producing, 1,464,625
—, manganese, zirconium alloy contg., made with, 1,248,648
—, manganese ore contg., extraction from, 1,291,867
—, manganese steel contg., 1,435,294
—, marine animal oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, match made with, 1,360,283; Re-15,039
—, match-head composition contg., 1,360,283; Re-15,039
—, melting of, alumina for, 1,185,394
—, —, aluminum oxide apparatus for, 1,514,151
—, —, apparatus for, 1,514,151
—, —, argon for, 1,514,151
—, —, carbon for, 1,185,394
—, —, clay for, 1,185,394
—, —, coke for, 1,185,394
—, —, hydrogen for, 1,514,151
—, —, lime for, 1,185,394
—, —, magnesia for, 1,185,394
—, —, magnesium oxide for, 1,514,151
—, —, process for, 1,160,430; 1,185,394; 1,514,151
—, —, producer gas for, 1,185,394
—, —, sand for 1,185,394
—, —, silica for, 1,185,394
—, mending composition made with, 1,389,084
—, menhaden oil, catalyst poisons, removal of from using 1,247, 516
—, —, hydrogenation of, using, 1,247,516
—, mercury(ous) azide, action of on, 1,453,976
—, mercury fulminate, action of on, 1,453,976
—, mesothorium chloride made with, 1,142,154
—, metal made with, 1,212,426; 1,277,035; 1,321,684
—, metal, coating with of, process for, 1,130,196
—, —, copper coated, made with, 1,244,414
—, —, precious, coated with, 1,335,024
—, —, zinc coated, made with, 1,244,414
—, metal alloy made with, 1,321,684
Aluminum, metal article made with, 1,233,322; 1,346,192
—, metal bodies contg., graphite and, mfr. of, 1,431,233
—, metal cement contg., 1,388,011
—, metal coated with, 1,346,062
—, metal from ore by means of, 1,277,034
—, metal mixture contg., 1,346,192
—, metal precipitated from cyanide solution with, 1,323,588
—, metal precipitated from solution using, 1,123,778
—, metals prevented from oxidizing by, 1,346,062
—, metal produced with, 1,415,516
—, metal repairing composition contg., 1,349,648
—, metals scavenged with, 1,460,830
—, metallic, production of, aluminum chloride for, 1,297,946
—, —, —, clay for, 1,297,946
—, —, —, electrolytic apparatus for, 1,297,946
—, metallic dust with, mfr. of, 1,290,181
—, mold, die casting, made with, 1,491,816
—, —, sand, made with, 1,153,231
—, molds coated with, 1,331,816
—, molded article made with, 1,409,275
—, mold mixture contg., 1,457,375
—, mold for rubber articles made of alloy of magnesium and, 1,329,312
—, molybdenum, alloy of, mfr., 1,453,254
—, —, tungsten alloy contg., made with, 1,235,969
—, molybdenum bronze contg., 1,319,537
—, molybdenum oxides reduced by, 1,448,036
—, molybdenum trioxide reduced to lower oxide by, 1,448,036
—, Monel metal contg., 1,439,865
—, motion picture screen made with, 1,149,940; 1,480,205
—, nickel made with, 1,195,607
—, nickel, alloy of, mfr. of, 1,453,254
—, —, coating with of, process for, 1,130,196; 1,515,658
—, —, tungsten alloy contg., made with, 1,235,969
—, —, zirconium alloy contg., made with, 1,248,648
—, nickel alloy contg., 1,203,180; 1,203,555; 1,439,865; 1,461,178; 1,514,064
—, —, thermo-electric couple made with, 1,169,611
—, —, producing, 1,464,625
—, nickel oxide reduced by, 1,387,663
—, nickel plated on, 1,332,307
—, nickel plated, alcohol for, 1,256,954
—, —, ammonium nickel sulfate for, 1,256,954
—, —, boric acid for, 1,256,954
—, —, carbon bisulfide for, 1,256,954
—, —, citric acid for, 1,256,954
—, —, mfr. of, aluminum, copper plated, for, 1,147,718
—, —, —, —, zinc plated, for, 1,147,718
—, —, —, ammonium hydroxide for, 1,147,718
—, —, —, ammonium nickel sulfate for, 1,147,718
—, —, —, nickel sulfate for, 1,147,718
—, —, —, process for, 1,147,718
—, —, nitric acid for, 1,256,954
—, —, oxalic acid for, 1,256,954

Aluminum, nickel plated, petroleum for, 1,256,954
—, —, process for, 1,256,954
—, —, sodium bicarbonate for, 1,256,954
—, —, sodium carbonate for, 1,256,954
—, —, sodium hydroxide for, 1,256,954
—, —, sodium nitrate for, 1,256,954
—, nickel plating, 1,457,149
—, niobium and, producing, 1,464,625
—, nitric acid, treatment with of, 1,130,196
—, —, apparatus for, made from, 1,130,104; 1,314,485
—, nitrogen, fixation of, using, 1,155,840; 1,198,965
—, —, liquid, made with, 1,205,477; 1,205,478
—, nitrogen fixation process using, 1,206,155
—, oil, animal, catalyst poisons, removal of from using, 1,132,710
—, —, —, hydrogenated with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, —, composition contg., coated with, process for, 1,258,282
—, —, drying, made with, 1,284,423; 1,384,447
—, —, —, treatment with of, 1,130,196
—, —, mineral, hydrogenated with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, —, —, treatment with of, 1,130,196
—, —, vegetable, catalyst poison, removal of from using, 1,132,710
—, —, —, drying, substitute made with, 1,254,866
—, —, —, hydrogenated with, 1,472,882
—, —, —, hydrogenation of, using, 1,247,516
—, —, —, non-sludging, made with, 1,472,882
—, oil-sulfonate, preparing, 1,330,624
—, olefin made with apparatus of, 1,282,906
—, ore, cyanide solution of, treatment of with, 1,136,872
—, ornamenting, metals for, 1,370,967
—, —, salts for, 1,370,967
—, oxides reduced with, 1,415,516
—, oxygen, liquid, made with, 1,205,477; 1,205,478
—, —, treatment with of, 1,130,196
—, packing made with, 1,409,275; 1,409,276
—, packing material contg., 1,441,951
—, paint made with, 1,227,071; 1,410,790; 1,411,673
—, paint, aluminum, made with, 1,158,962
—, paint contg., Japan, turpentine and, 1,367,888
—, paper, coated with, mfr. of, alcohol for, 1,376,737
—, —, —, —, apparatus for, 1,376,737
—, —, —, —, beeswax for, 1,376,737
—, —, —, —, benzine for, 1,376,737
—, —, —, —, copal for, 1,376,737
—, —, —, —, paraffin for, 1,376,737
—, —, —, —, process for, 1,376,737
—, —, —, —, shellac for, 1,376,737
—, —, —, —, tallow for, 1,376,737
—, —, —, —, varnish for, 1,376,737
—, —, tissue, coated with, mfr. of, alcohol for, 1,376,737
—, —, —, —, —, apparatus for, 1,376,737
—, —, —, —, —, beeswax for, 1,376,737
—, —, —, —, —, benzine for, 1,376,737
—, —, —, —, —, copal for, 1,376,737
—, —, —, —, —, paraffin for, 1,376,737
—, —, —, —, —, process for 1,376,737
Aluminum, paper, tissue coated with, mfr. of, shellac for, 1,376,737
—, —, —, —, —, tallow for, 1,376,737
—, —, —, —, —, varnish for, 1,376,737
—, papier-mache coated with, process for, 1,258,282
—, paraffin made with, 1,127,465
—, pasteboard coated with, process for, 1,258,282
—, petroleum, non-sludging, made with, 1,472,882
—, phonograph record made with, 1,398,145
—, phonograph record reinforced with, 1,398,145
—, phosgene for removal of from siliceous material, 1,368,396
—, phosphoric acid, treatment of with, 1,269,080
—, phosphoric acid contg., removal of, process for, 1,451,786
—, phosphorus compounds, marine animal oils, removal from of, using, 1,247,516
—, pictures reproduced by aid of thin sheets of, 1,407,301
—, pipe mending composition made with, 1,389,084
—, piperylene made with apparatus of, 1,282,906
—, plastic made with, 1.389,084
—, plate, key, made with, 1,325,890
—, —, lithographic, made with, 1,325,890
—, —, press, made with, 1,325,890
—, platinum made with, 1,177,396
—, —, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating of with, process for, 1,224,339
—, platinum anode supported by, 1,470,577
—, platinum coating for, mfr. of, ammonium chloride for, 1,274,995
—, —, —, ammonium chlorplatinate for, 1,274,995
—, —, —, platinum chloride for, 1,274,995
—, —, —, potassium bitartrate for, 1,274,995
—, —, —, process for, 1,274,995
—, polish for, 1,216,643; 1,253,353; 1,456,151
—, —, mfr. of, aluminum oxide for, 1,491,456
—, —, —, aluminum sulfate for, 1,491,456
—, —, —, process for, 1,491,456
—, —, —, tartaric acid for, 1,491,456
—, porcelain, aluminum coated, made with, 1,157,569
—, porcelain coated with, mfr. of, aluminum for, 1,157,569
—, —, —, hydrofluoric acid for, 1,157,569
—, —, —, hydrogen dioxide for, 1,157,569
—, —, —, process for, 1,157,569
—, —, —, sodium bicarbonate for, 1,157,569
—, position in electrochemical series, 1,429,131
—, potassium carbonate, treatment with of, 1,130,196
—, potassium zirconium halides decomposed with, 1,437,984
—, powder, iron oxide, sulfur, thermite contg., 1,318,709
—, —, —, thermite contg., 1,318,709
—, powdered, airship fabric coated with, 1,449,748
—, —, fabric coated with, 1,449,748
—, —, —, welding with, 1,441,094
—, powdering, 1,327,743
—, preparation of, 1,390,796

Aluminum, primer made with, 1,478,429
—, primer for signal fusees contg., 1,430,590
—, printer blanket, off-set press, made with, 1,211,706
—, printing on, process for, 1,289,215
—, printing plate made with, 1,219,332; 1,377,503
—, printing plate, lithographic, made with, 1,203,770
—, —, photomechanical, made with, 1,155,186
—, —, planographic, made with, 1,215,494
—, printing plate for linoleum made of, 1,135,749
—, printing press roller made with, 1,345,200
—, production of, air for, 1,206,874; 1,230,143
—, —, alkali earth carbide for, 1,273,220
—, —, alkali earth oxide for, 1,273,220
—, —, alkali hydroxide for, 1,196,734
—, —, alum clay for, 1,308,429
—, —, alumina for, 1,490,504; 1,512,462
—, —, aluminum carbide for, 1,220,843; 1,512,462
—, —, aluminum chloride for, 1,220,843; 1,238,604; 1,506,104; 1,519,648
—, —, aluminum chloride residue for, 1,206,874
—, —, aluminum compounds for, 1,308,429
—, —, aluminum dust for, 1,273,220
—, —, aluminum fluorides for, 1,132,737; 1,160,431; 1,217,432
—, —, aluminum hydroxide for, 1,512,462
—, —, aluminum ore for, 1,251,058
—, —, aluminum oxide for, 1,132,737; 1,220,843; 1,257,995; 1,273,220; 1,512,271; 1,512,462; 1,519,648
—, —, aluminum silicates for, 1,160,431; 1,196,734; 1,238,604; 1,251,058; 1,506,104; 1,519,648
—, —, aluminum sulfate for, 1,160,431
—, —, aluminum sulfide for, 1,220,843; 1,512,462
—, —, alundum for, 1,512,462
—, —, alunite for, 1,217,432
—, —, anorthosite for, 1,302,852
—, —, apparatus for, 1,230,143; 1,238,604; 1,241,796; 1,490,504; 1,506,104; 1,519,648
—, —, bauxite for, 1,297,946; 1,308,429; 1,512,271; 1,512,462; 1,519,648
—, —, bituminous shale for, 1,506,104
—, —, borax for, 1,217,432
—, —, calcium carbide for, 1,512,462
—, —, calcium fluoride for, 1,217,432; 1,512,462
—, —, calcium hydroxide for, 1,196,734
—, —, calcium oxide for, 1,196,734
—, —, calcium sulfate for, 1,512,462
—, —, calcium sulfide for, 1,512,462
—, —, carbide for, 1,273,220; 1,512,462
—, —, carbon for, 1,206,874; 1,238,604; 1,257,995; 1,273,220; 1,506,104; 1,512,271; 1,512,462
—, —, carbon electrode for, 1,490,504
—, —, carbon monoxide for, 1,238,604
—, —, carbon tetrachloride for, 1,238,604
—, —, chalcopyrite for, 1,512,462
—, —, charcoal for, 1,512,462
—, —, chlorine for, 1,238,604; 1,241,796; 1,506,104; 1,519,648
—, —, chlorine compound for, 1,238,604
—, —, chlorine treatment for, 1,302,852
—, —, clay for, 1,160,431; 1,238,604; 1,241,796; 1,251,058; 1,308,429; 1,506,104; 1,512,462; 1,519,648
Aluminum, production of, coal for, 1,238,604
—, —, coal, anthracite, for, 1,512,462
—, —, —, slatey, for, 1,506,104
—, —, coke for, 1,512,462
—, —, coke breeze for, 1,238,604
—, —, coke dust for, 1,512,462
—, —, copper for, 1,273,220
—, —, copper oxide for, 1,273,220
—, —, cryolite for, 1,206,874; 1,490,504
—, —, diaspore for, 1,519,648
—, —, earth for, 1,251,058; 1,308,429
—, —, electrolyte for, aluminum fluoride in, 1,464,625
—, —, —, aluminum oxide in, 1,464,625
—, —, —, calcium fluoride in, 1,464,625
—, —, —, cryolite in, 1,464,625
—, —, —, sodium aluminum fluoride in, 1,464,625
—, —, —, sodium fluoride in, 1,464,625
—, —, —, sodium fluosilicate in, 1,464,625
—, —, —, sodium silicate in, 1,464,625
—, —, electrolytic process for, 1,490,504
—, —, feldspar for, 1,196,734
—, —, fluorine compound for, 1,217,432
—, —, fluorspar for, 1,217,432
—, —, gasolene for, 1,206,874
—, —, graphite for, 1,512,462
—, —, halloysite for, 1,308,429
—, —, hydrargillite for, 1,519,648
—, —, hydrocarbon gas for, 1,273,220
—, —, hydrochloric acid treatment for, 1,302,852
—, —, hydrogen for, 1,273,220
—, —, iron for, 1,512,462
—, —, iron ore for, 1,230,143; 1,489,362
—, —, iron ore, Cuban, for, 1,230,143
—, —, iron sulfide (FeS) for, 1,512,462
—, —, kaolin for, 1,160,431; 1,241,796; 1,297,946; 1,305,969; 1,519,648
—, —, labradorite for, 1,302,852
—, —, laterite for, 1,308,429
—, —, leucite for, 1,196,734
—, —, lignite for, 1,506,104
—, —, lime for, 1,512,462
—, —, magnesium sulfate for, 1,512,462
—, —, magnesium sulfide for, 1,512,462
—, —, microcline for, 1,196,734
—, —, muscovite for, 1,196,734
—, —, nitrogen oxide treatment for, 1,302,852
—, —, oil shale for, 1,506,104
—, —, ore, aluminum, for, 1,308,429
—, —, orthoclase for, 1,196,734
—, —, oxide for, 1,273,220
—, —, "oxide alundum" for, 1,512,462
—, —, pitch for, 1,273,220
—, —, plagioclase for, 1,302,852
—, —, potassium chloride for, 1,160,431
—, —, potassium silicates for, 1,196,734
—, —, process for, 1,132,737; 1,160,431; 1,196,734; 1,206,874; 1,217,432; 1,220,843; 1,230,143; 1,238,604; 1,241,796; 1,251,058; 1,257,995; 1,261,694; 1,273,220; 1,350,150; 1,489,362; 1,490,504; 1,506,104; 1,512,271; 1,512,462; 1,519,648
—, —, pyrite for, 1,230,143; 1,512,462
—, —, pyrrhotite for, 1,512,462
—, —, quartz for, 1,512,462
—, —, rhyolite ash for, 1,308,429
—, —, rhyolite mud for, 1,308,429

Aluminum, production of, sand for, 1,251,058
—, —, shale for, 1,506,104
—, —, silica for, 1,512,271
—, —, silicon carbide for, 1,273,220
—, —, silicon dioxide for, 1,273,220
—, —, silicon tetrachloride for, 1,238,604
—, —, sodium bisulfate for, 1,160,431
—, —, sodium bromide for, 1,160,431
—, —, sodium carbonate for, 1,217,432
—, —, sodium chloride for, 1,160,431; 1,206,874; 1,238,604; 1,506,104
—, —, sodium fluoride for, 1,160,431; 1,217,432
—, —, sodium iodide for, 1,160,431
—, —, sodium sulfate for, 1,160,431
—, —, steam for, 1,512,462
—, —, sulfide ores for, 1,261,694
—, —, sulfur dioxide for, 1,230,143
—, —, sulfuric acid for, 1,160,431; 1,196,734; 1,230,143; 1,261,694; 1,489,362
—, —, tar for, 1,273,220
—, projectile made with, 1,502,925
—, projectile, incendiary, contg., 1,301,381
—, propeller made with, 1,304,102
—, propene, catalyst for the mfr. of, made with, 1,202,385
—, propylene made with apparatus of, 1,282,906
—, protecting, aluminum hydroxide for, process of, 1,451,755
—, pulverizing, of, process for, 1,327,743
—, purifying, potassium phosphide for, 1,348,458
—, pyrotechnic made with, 1,399,953
—, pyrotechnic composition contg., 1,399,953; 1,423,264
—, pyrotechnic mixture contg., 1,419,295
—, radiator-repairing composition contg., 1,377,275
—, radium applicator made with, 1,288,048
—, radium-barium chloride made with, 1,142,154
—, railway signal fuse made with, 1,180,438
—, record, phonograph, made with, 1,288,610; 1,421,045; 1,518,443
—, recovery of, aluminum waste for, 1,180,435
—, —, cryolite for, 1,180,435
—, —, feldspar for, 1,402,831
—, —, iron ores for, 1,341,901; 1,377,822
—, —, process for, 1,180,435
—, —, sodium chloride for, 1,180,435
—, recovery from ores, flux for, 1,416,871
—, —, haloid salts for, 1,392,043; 1,392,044
—, recovery from scrap, 1,403,349
—, recovery from scrap of, apparatus for, 1,260,312
—, —, process for, 1,260,312
—, recovery from waste material of, process for, 1,519,204
—, —, sodium chloride for, 1,519,204
—, rectifier electrode of, 1,255,391; 1,326,297
—, reducing agent, 1,375,972
—, reduction of from ores, coal for, 1,379,023
—, —, carbon for, 1,372,483
—, —, sawdust impregnated with alkali for, 1,372,483
—, —, sodium chloride for, 1,372,483
—, refining scrap, zinc chloride used in, 1,403,349
—, refractory made with, 1,197,626; 1,198,033; 1,273,529; 1,360,355; 1,380,700
Aluminum, refractory contg. compounds of, 1,390,327
—, removing from spelter, zinc oxide for, 1,333,721
—, reproduction composition made with, 1,386,995
—, reproduction of designs by writing on glass with, 1,365,058
—, resin, composition contg., coated with, process for, 1,258,282
—, resistance, electric, made with, 1,366,095
—, —, —, alloy, contg., 1,217,578
—, retorts coated with, carbon bisulfide mfr. in, 1,454,708
—, roller, inking, made with, 1,345,200
—, rouge pad made with, 1,194,185
—, rubber coated with, 1,259,508
—, rubber mending composition made with, 1,389,084
—, rubber mixture contg., comminuted, 1,395,413
—, rubber substitute made with, 1,409,275
—, rustproofing using, 1,224,339
—, S A M metal constituent, 1,415,085
—, sandstone, calcareous coated with, process for, 1,258,282
—, scandium and, producing, 1,464,625
—, selenium oxychloride as solvent of, 1,385,081
—, separating from minerals, magnetic separator for, 1,414,170
—, sheet, car body made with, 1,221,561
—, —, coating for, mfr. of, alkali for, 1,221,561
—, —, —, —, aluminum silicate for, 1,221,561
—, —, —, —, borax for, 1,221,561
—, —, —, —, carborundum for, 1,221,561
—, —, —, —, cobalt oxide for, 1,221,561
—, —, —, —, feldspar for, 1,221,561
—, —, —, —, flint, torrified, for, 1,221,561
—, —, —, —, iron oxide for, 1,221,561
—, —, —, —, lead oxide (Pb_3O_4) for, 1,221,561
—, —, —, —, manganese dioxide for, 1,221,561
—, —, —, —, potassium carbonate for, 1,221,561
—, —, —, —, potassium nitrate for, 1,221,561
—, —, —, —, process for, 1,221,561
—, —, —, —, quartz for, 1,221,561
—, —, —, —, rutile for, 1,221,561
—, —, —, —, silex for, 1,221,561
—, —, —, —, sodium carbonate for, 1,221,561
—, —, —, —, sodium nitrate for, 1,221,561
—, —, —, —, titanium dioxide for, 1,221,561
—, —, vehicle body made with, 1,221,561
—, shellac derivative contg., 1,309,967
—, shoe, rubber, made using mold of, 1,518,062
—, shoe heel made with, 1,175,624
—, shoe sole made with, 1,175,624
—, shot-gun-shell contg., fiber impregnated with, 1,340,245
—, silicates obtained from, 1,380,552
—, silicon made with, 1,238,604; 1,241,796; 1,518,872
—, silicon, alloy made with, 1,321,684
—, —, aluminum alloy contg., made with, 1,480,779
—, —, chromium made with, 1,321,684
—, —, ferro-alloy made with, 1,321,684
—, —, ferro-chromium made with, 1,321,684
—, —, ferro-titanium made with, 1,321,684
—, —, ferro-tungsten made with, 1,321,684

Aluminum, silicon, ferro-vanadium made with, 1,321,684
—, —, manganese made with, 1,321,684
—, —, metal made with, 1,321,684
—, —, metal alloy made with, 1,321,684
—, —, producing, 1,464,625
—, —, removal from of, glass for, 1,180,968
—, —, —, process for, 1,180,968
—, —, —, silicates for, 1,180,968
—, —, tungsten made with, 1,321,684
—, silicon alloy made with, 1,518,872
—, silicon alloy contg., gold production of using, 1,492,282
—, —, silver production of using, 1,492,282
—, silicon carbide made with, 1,225,396
—, silicon as impurity in, annealing of, process for, 1,273,706
—, silk coated with, mfr. of, alcohol for, 1,376,737
—, —, —, apparatus for, 1,376,737
—, —, —, beeswax for, 1,376,737
—, —, —, benzine for, 1,376,737
—, —, —, copal for, 1,376,737
—, —, —, paraffin for, 1,376,737
—, —, —, process for, 1,376,737
—, —, —, shellac for, 1,376,737
—, —, —, tallow for, 1,376,737
—, —, —, varnish for, 1,376,737
—, silver, cleaning of using, Re-14,007; (1,058,568)
—, —, coating with of, process for, 1,130,196; 1,515,658
—, —, production of using, 1,177,396; 1,195,607; 1,183,086; 1,184,456; 1,480,439; 1,492,283
—, silver coated, mfr. of, potassium bitartrate for, 1,208,507
—, —, —, potassium cyanide for, 1,208,507
—, —, —, potassium iodide for, 1,208,507
—, —, —, potassium silver cyanide for, 1,208,507
—, —, —, process for, 1,147,718; 1,208,507
—, silver precipitated from cyanide solution with, 1,323,588
—, silver recovery of using, 1,205,207
—, silver sodium cyanide, treatment of with, 1,136,872
—, slime, cyanide solution of, treatment of with, 1,136,872
—, smoke producing compound made with, 1,244,940
—, sodium and, aluminum-magnesium alloy made from, 1,359,813
—, sodium aluminate made with, 1,490,309
—, sodium carbonate, treatment with of, 1,130,196
—, sodium chloride made using, 1,499,600
—, sodium chloride for reducing from ores, 1,372,483
—, sodium fluosilicates, action of on, 1,464,625
—, sodium hydroxide, treatment with of, 1,130,196; 1,464,625
—, sodium magnesium alloy of, formation, 1,457,225
—, sodium oxalate made with, 1,281,118
—, sodium oxide, action of on, 1,346,728
—, sodium tartrate, treatment with of, 1,130,196
—, solder contg., 1,196,118; 1,326,971; 1,332,899; 1,344,165; 1,417,428
Aluminum, solder contg., aluminum, soldering of, using, 1,196,118
—, solder for, aluminum in, 1,145,307; 1,161,612; 1,239,854; 1,273,146; 1,336,081; 1,344,165; 1,466,061
—, —, aluminum, zinc and copper alloy as, 1,344,165
—, —, antimony in, 1,239,854; 1,328,694; 1,344,566
—, —, bismuth in, 1,239,854
—, —, copper in, 1,328,694; 1,344,165; 1,344,566
—, —, formula, 1,437,641
—, —, —, aluminum 180, tin 18, silver nitrate 1, silver chloride 1, 1,415,925
—, —, —, lead 34%, block tin 34%, zinc 30%, aluminum 2%, 1,336,081
—, —, —, lead, tin, zinc, antimony, copper, 1,328,694
—, —, —, tin 80, lead 16, aluminum 8, zinc 16, phosphorus tin 8, 1,145,307
—, —, —, tin 58.45, zinc 35, aluminum 4.19, antimony 1.22, phosphor tin, 1.14, 1,416,924
—, —, —, tin 67.60, zinc 16.90, bismuth 2.82, aluminum 1.41, phosphorus-tin, 11.27, 1,341,508
—, —, —, tin 85-95%, zinc 0.5-9.5%, silver 0.5-4.5%, copper 0.5-4.5%, 1,437,641
—, —, —, zinc, tin, lead (variable proportions), 1,333,237
—, —, lead in, 1,145,307; 1,222,158; 1,224,941; 1,239,854; 1,328,694; 1,344,566
—, —, mfr. of, 1,301,633
—, —, —, aluminum for, 1,194,101; 1,239,854
—, —, —, antimony for, 1,194,101
—, —, —, bismuth for, 1,194,101
—, —, —, hydrochloric acid for, 1,239,854
—, —, —, lead for, 1,194,101; 1,239,854
—, —, —, phosphor tin for, 1,194,648
—, —, —, process for, 1,194,101; 1,194,648; 1,239,854
—, —, —, sulfuric acid for, 1,194,101
—, —, —, tin for, 1,194,101; 1,239,854
—, —, —, zinc for, 1,194,101; 1,194,648; 1,239,854
—, —, phosphorus in, 1,145,307
—, —, silver in, 1,222,158
—, —, tin in, 1,145,307; 1,222,158; 1,224,941; 1,239,854; 1,328,694; 1,344,165; 1,344,566
—, —, tin, phosphorus alloy of, in, 1,145,307
—, —, white metal in, 1,328,694; 1,344,566
—, —, zinc in, 1,145,307; 1,222,158; 1,224,941; 1,239,854; 1,328,694; 1,344,165; 1,344,566
—, —, *see also Solder, aluminum*
—, solder for joining, tin and zinc in, 1,338,966
—, soldering of, alloy flux for, 1,483,327
—, —, aluminum for, 1,321,454; 1,321,529
—, —, aluminum, solder contg., for, 1,196,118
—, —, ammonium chloride for, 1,321,454; 1,321,529
—, —, beeswax for, 1,516,759
—, —, butter for, 1,516,759
—, —, cadmium, tin alloy contg., for, 1,233,803
—, —, chicken fat for, 1,516,759
—, —, composition for, formulas for, 1,402,644
—, —, copper deposited on to permit of, 1,387,426
—, —, cotton seed oil as flux for, 1,208,798; 1,208,799

Aluminum, soldering of, cow fat for, 1,516,759
—, —, fat, animal, for, 1,516,759
—, —, fish fat for, 1,516,759
—, —, flux for, 1,188,188
—, —, —, chalk in, 1,259,590
—, —, —, mercury in, 1,259,590
—, —, —, olive oil in, 1,259,590
—, —, —, turpentine in, 1,259,590
—, —, hydrochloric acid for, 1,196,118
—, —, lamb butter for, 1,516,759
—, —, lamb fat for, 1,516,759
—, —, lead for, 1,321,454; 1,321,529
—, —, lead, solder contg., for, 1,196,118
—, —, linoleic acid, glycerides of, as flux for, 1,208,798; 1,208,799
—, —, linseed oil as flux for, 1,208,798; 1,208,799
—, —, mercury for, 1,196,118
—, —, mercury(ic) chloride for, 1,196,118
—, —, mercury(ic) nitrate for, 1,196,118
—, —, mercury(ic) oxide for, 1,196,118
—, —, nitric acid for, 1,196,118
—, —, oil, vegetable, for, 1,516,759
—, —, oleic acid, glycerides as flux for, 1,208,798; 1,208,799
—, —, oleic acid as flux for, 1,208,799
—, —, olive oil for, 1,516,759
—, —, olive oil as flux for, 1,208,798; 1,208,799
—, —, palmitic acid as flux for, 1,208,799
—, —, pig fat for, 1,516,759
—, —, process for, 1,195,955; 1,196,118; 1,208,798; 1,208,799; 1,233,803; 1,340,264
—, —, sesame oil for, 1,516,759
—, —, skunk oil for, 1,321,454; 1,321,529
—, —, solder for, 1,195,955; 1,196,118
—, —, solder, aluminum in, for, 1,196,118
—, —, —, lead in, for, 1,196,118
—, —, —, tin in, for, 1,196,118
—, —, —, zinc in, for, 1,196,118
—, —, stearic acid for, 1,195,955; 1,233,803; 1,321,454; 1,321,529
—, —, stearic acid as flux for, 1,208,799
—, —, tallow, mutton, for, 1,321,454; 1,321,529
—, —, tin for, 1,321,454; 1,321,529; 1,402,644
—, —, tin, solder contg., for, 1,196,118
—, —, tin alloy, cadmium in, for, 1,233,803
—, —, —, zinc in, for, 1,233,803
—, —, zinc for, 1,321,454; 1,321,529
—, —, zinc, solder contg., for, 1,196,118
—, —, —, tin alloy contg., for, 1,233,803
—, soldering flux for, 1,374,233
—, —, alkali bisulfate in, 1,139,923
—, —, alkali pyrosulfate in, 1,139,923
—, —, borax in, 1,139,923
—, —, sodium bisulfate in, 1,139,923
—, solvent for, selenium oxychloride as, 1,385,081
—, sound record of, 1,421,045
—, spelter contg., 1,333,721
—, steel contg., 1,318,164; 1,420,328; 1,435,840
—, steel made with, 1,213,806; 1,217,972; 1,223,030; 1,360,830; 1,479,327; 1,491,929; 1,501,202
—, steel, alloy, made with, 1,315,468
—, —, arc-welding of, flux contg., 1,323,768
—, —, "calorized," made with, 1,398,960
—, —, casting of using, 1,206,188
—, —, chromium, contg., 1,516,262
Aluminum, steel, coating of using, 1,156,169
—, —, compound body of and, mfr. of, process for, 1,180,248; 1,180,249
—, —, copper, compound body of and made using, 1,180,248
—, —, copper coated, made with, 1,244,414
—, —, deoxidizing of using, 1,471,401; 1,479,327
—, —, de-sulfurizing of using, 1,471,401
—, —, high speed, hardened with, 1,275,242
—, —, manganese contg., 1,310,528
—, —, manganese made with, 1,213,806
—, —, nickel chrome made with, 1,213,806; 1,501,202
—, —, protection from corrosion of, using, 1,512,557
—, —, rustless, made with, 1,508,211
—, —, rustproofing of with, 1,254,263; 1,254,264
—, —, stainless, made with, 1,432,289
—, —, titanium made with, 1,213,806
—, —, tungsten, hardened with, 1,275,242
—, —, vanadium made with, 1,213,806
—, —, zinc coated, made with, 1,244,414
—, steel alloy made with, 1,325,455; 1,508,211
—, steel alloy contg., hardening of, ammonia for, 1,487,554
—, —, —, nitrogen for, 1,487,554
—, —, —, process for, 1,487,554
—, steel alloy mfr. by means of reducing action of, 1,392,462
—, steel alloy prepared with, 1,441,479
—, steel coated with, 1,378,052
—, —, mfr. of, alkali aluminum fluoride for, 1,488,553
—, —, —, aluminum, finely divided for, 1,480,779
—, —, —, aluminum potassium fluoride for, 1,488,553
—, —, —, aluminum sodium fluoride for, 1,488,553
—, —, —, apparatus for, 1,488,553
—, —, —, carbon cathode for, 1,488,553
—, —, —, electrolytic process for, 1,488,553
—, —, —, hydrogen for, 1,480,779
—, —, —, potassium fluoride for, 1,488,553
—, —, —, potassium nitrate for, 1,488,553
—, —, —, process for, 1,480,779; 1,488,553
—, —, —, sodium fluoride for, 1,488,553
—, —, —, sodium nitrate for, 1,488,553
—, steel-improving alloy contg, 1,382,146; 1,382,147
—, steel ingots made with, 1,515,794
—, steel sheets coated with, 1,378,052
—, stone, artificial, made using, 1,187,717
—, —, —, coated with, 1,154,651; 1,258,282
—, stone coated with, graphite for, 1,258,282
—, —, process for, 1,258,282
—, sulfur, ignitable mixture contg., 1,318,709
—, —, lute made of mixture of and, 1,263,398
—, sulfur carbide made with, 1,225,396
—, sulfur compounds, marine animal oils, removal from of using, 1,247,516
—, sulfuric acid, treatment with of, 1,130,196
—, sulfur melting apparatus of, 1,421,416
—, sulfur prevented from attacking iron by, 1,454,708
—, suppository made with, 1,188,722

Aluminum, tanks, protection from corrosion of, using, 1,512,557
—, tantalum and, producing, 1,464,625
—, tantalum, zirconium alloy contg., made using, 1,248,648
—, tartrate, treatment with of, 1,130,196
—, teeth, artificial, mending composition for, made with, 1,389,084
—, telephone transmitter made with, 1,366,095
—, ten pin made with, 1,518,130
—, thermite contg., 1,168,061; 1,318,709; 1,360,830; 1,395,769; 1,430,667
—, thermite cartridge made of, 1,498,323
—, thermite igniter contg., 1,142,154
—, thermite igniting mixture contg., 1,395,769
—, thermite ingredient, 1,355,224
—, thermite mixture contg., chromite and, 1,386,981
—, thorium and, producing, 1,464,625
—, thorium compound made with, 1,142,154
—, tin alloy contg., 1,483,327
—, tin alloys plated on, 1,332,307
—, tin chloride, treatment with of, 1,130,196
—, tin coated, mfr. of, apparatus for, 1,172,160
—, —, —, hydrochloric acid for, 1,172,160
—, —, —, hydrofluoric acid for, 1,172,160
—, —, —, hydrogen dioxide for, 1,172,160
—, —, —, potassium hydroxide for, 1,172,160
—, —, —, process for, 1,172,160
—, —, —, sodium bicarbonate for, 1,172,160
—, —, —, sodium hydroxide for, 1,172,160
—, tinning, metal for, formula, 1,339,710
—, —, method of, 1,339,710
—, —, stearic acid used in, 1,339,710
—, tin ores contg., 1,426,341
—, tin plated on, 1,332,307
—, tin treated with, 1,466,126
—, tire made with, 1,175,624; 1,200,296
—, tire, pneumatic, made with madrel made of, 1,344,702
—, titanium and, producing, 1,464,625
—, titanium, zirconium alloy contg., made using, 1,248,648
—, titanium alloy contg., 1,431,725
—, torpedoes propelled by sodium hydroxide and, 1,419,267
—, tungsten made with, 1,212,426; 1,224,242; 1,321,684
—, tungsten alloy made with, 1,235,969
—, tungsten alloy, chromium in, made with, 1,235,969
—, —, molybdenum in, made with, 1,235,969
—, —, nickel in, made with, 1,235,969
—, tungsten oxides reduced by, 1,448,036
—, tungsten trioxide reduced to lower oxide by, 1,448,036
—, turpentine substitute made with, 1,127,465
—, uranium and, producing, 1,464,625
—, uranium oxide, action on of magnesium and, 1,310,309; 1,310,310
—, uranium oxide reduced by, 1,304,224; 1,448,036
—, uranium trioxide reduced to lower oxide by, 1,448,036
—, vanadium made with, 1,277,035
—, vanadium and, producing, 1,464,625
—, vanadium oxide made with, 1,129,253
Aluminum, varnishing of, process for, 1,130,196
—, volatizing, phosgene for, 1,368,396
—, water, boiler, treatment of, using, 1,499,600
—, —, filter for contg., 1,276,129
—, —, ice plant, treatment of, using, 1,499,600
—, —, treatment of, using, 1,499,600
—, " water-cooled," mfr. of, 1,301,646
—, water gas made with, 1,506,323
—, waterproofing made with, 1,389,084
—, welding of, apparatus for, 1,176,614; 1,489,093
—, —, electric, process for, 1,134,007
—, —, flux for, 1,502,144
—, —, —, chalk in, 1,259,590
—, —, —, mercury in, 1,259,590
—, —, —, olive oil in 1,259,590
—, —, —, turpentine in, 1,259,590
—, —, molybdenum electrode for, 1,176,614
—, —, process for, 1,126,655; 1,176,614; 1,196,744; 1,489,093
—, —, tungsten electrode for, 1,176,614
—, —, *see also Aluminum, solder for*
—, welding-electrode contg., 1,389,476
—, welding flux made with, 1,502,144
—, welding flux for, alkali bisulfate in, 1,139,923
—, —, alkali pyrosulfate in, 1,139,923
—, —, borax in, 1,139,923
—, —, sodium bisulfate in, 1,139,923
—, whale oil, catalyst poisons, removal of from using, 1,132,710; 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, white coating of, alkali hydroxide for, 1,289,215
—, —, process for, 1,289,215
—, —, sodium hydroxide for, 1,289,215
—, —, sodium silicate for, 1,289,215
—, white gold made with, 1,165,448
—, wood coated with, 1,154,651
—, —, mfr. of, alcohol for, 1,376,737
—, —, —, apparatus for, 1,376,737
—, —, —, beeswax for, 1,376,737
—, —, —, benzine for, 1,376,737
—, —, —, copal for, 1,376,737
—, —, —, paraffin for, 1,376,737
—, —, —, process for, 1,376,737
—, —, —, shellac for, 1,376,737
—, —, —, tallow for, 1,376,737
—, —, —, varnish for, 1,376,737
—, wood work mending composition made with, 1,389,084
—, ytterbium and, producing, 1,464,625
—, zeolite, artificial, made with, 1,263,706
—, zinc, alloy (superficial) of and, mfr. of, apparatus for, 1,224,340
—, —, —, —, process for, 1,224,340
—, —, chromium made with, 1,321,684
—, —, coating with of, apparatus for, 1,224,340
—, —, —, process for, 1,224,340
—, —, ferro-alloy made with, 1,321,684
—, —, ferro-chromium made with, 1,321,684
—, —, ferro-titanium made with, 1,321,684
—, —, ferro-tungsten made with, 1,321,684
—, —, ferro-vanadium made with, 1,321,684
—, —, iron, removal of from using, 1,515,140
—, —, iron coated with, made with, 1,244,414
—, —, manganese made with, 1,321,684
—, —, metal made with, 1,321,684
—, —, metal alloy made with, 1,321,684

Aluminum, zinc, metal coated with, made with, 1,244,414
—, —, removal from of, iron for, 1,515,140
—, —, —, process for, 1,515,140
—, —, steel coated with, made with, 1,244,414
—, —, sulfur, ignitable mixture contg., 1,318,709
—, —, tungsten made with, 1,321,684
—, zinc acetate, alcoholic, treatment with of, 1,130,196
—, zinc alloy contg., 1,321,684; 1,364,654; 1,421,686; 1,490,696
—, zinc alloy, iron, removal of from using, 1,515,140
—, —, removal from of, iron for, 1,515,140
—, —, —, process for, 1,515,140
—, —, treatment with of, 1,130,196
—, zinc coated, mfr. of, apparatus for, 1,172,160
—, —, —, hydrochloric acid for, 1,172,160
—, —, —, hydrofluoric acid for, 1,172,160
—, —, —, hydrogen dioxide for, 1,172,160
—, —, —, potassium hydroxide for, 1,172,160
—, —, —, process for, 1,172,160
—, —, —, sodium bicarbonate for, 1,172,160
—, —, —, sodium hydroxide for, 1,172,160
—, —, soldering iron made with, 1,221,566
—, zinc compounds and, cyanamides made with, 1,363,096
—, zinc cups electroplated upon cores of, 1,419,839
—, zinc dust with, mfr. of, 1,290,181
—, zinc electrodeposition using cathode of, 1,255,433
—, zinc plated on, 1,332,307
—, zinc plated, aluminum, brass plated, made using, 1,147,718
—, —, —, copper plated, made with, 1,147,718
—, —, —, nickel plated, made with, 1,147,718
—, —, —, silver plated, made with, 1,147,718
—, —, mfr. of, brass solution for, 1,147,718
—, —, —, nickel anode for, 1,147,718
—, —, —, nitric acid for, 1,147,718
—, —, —, process for, 1,147,718
—, —, —, sodium cyanide for, 1,147,718
—, —, —, sodium hydroxide for, 1,147,718
—, —, —, sulfuric acid for, 1,147,718
—, —, —, zinc carbonate for, 1,147,718
—, —, —, zinc salt for, 1,147,718
—, —, —, zinc solution for, 1,147,718
—, zinc solution contg., impurity of, 1,315,982
—, zinc solutions purified with, 1,429,131
—, zinc sulfate solutions purified by, 1,382,494
—, zirconia purified from, 1,307,881
—, zirconium and, producing, 1,464,625
—, zirconium alloy, aluminum in, made using, 1,248,648
—, —, cobalt in, made using, 1,248,648
—, —, columbium in, made using, 1,248,648
—, —, formation of, 1,437,984
—, —, iron in, made using, 1,151,160; 1,248,648
—, —, manganese in, made using, 1,248,648
—, —, nickel in, made using, 1,248,648
—, —, tantalum in, made using, 1,248,648
—, —, titanium in, made using, 1,248,648
—, zirconium alloy contg., lamp, electric, filament for, made with, 1,248,648
—, —, mfr. of, aluminum for, 1,248,648
—, —, —, barium oxide for, 1,248,648
Aluminum, zirconium alloy contg., mfr. of, chloride for, 1,248,648
—, —, —, fluorides for, 1,248,648
—, —, —, halides for, 1,248,648
—, —, —, ilmenite for, 1,248,648
—, —, —, iron oxide for, 1,248,648
—, —, —, magnesium for, 1,248,648
—, —, —, process for, 1,248,648
—, —, —, rutile for, 1,248,648
—, —, —, silica for, 1,248,648
—, —, —, sodium carbonate for, 1,248,648
—, —, —, titanite for, 1,248,648
—, —, —, titanium dioxide for, 1,248,648
—, —, —, zircon for, 1,248,648
—, —, —, zirconia for, 1,248,648
—, —, —, zirconium oxide for, 1,248,648
—, zirconium oxide reduced by, 1,387,663
Aluminum abrasive, see Abrasive, aluminum
Aluminum acetate, therapeutic compound of, 1,132,709
—, asbestos waterproofing of with, 1,280,954
—, basic, coloring matter made with, 1,164,036; 1,164,037; 1,173,330
—, —, dye made with, 1,173,330
—, —, fabric, printing composition for, made with, 1,164,036; 1,164,037; 1,173,330
—, —, paint made with, 1,164,036; 1,164,037; 1,173,330
—, catalyst, dehydrogenation, made with, 1,271,013
—, —, ester gum made with, 1,242,161
—, —, hydrogenation, made with, 1,271,013
—, —, paint made with, 1,242,161
—, —, varnish made with, 1,242,161
— chrome yellow made with, 1,484,088
—, color photography film dyed with, 1,443,012
—, cotton fabrics waterproofed with, 1,360,224
—, fabric, waterproofing of, using, 1,242,327
—, fabric dyed with, 1,306,213
—, fiber, animal, waterproofing of with, 1,280,954
—, —, mineral, waterproofing of with, 1,280,954
—, —, vegetable, waterproofing of with, 1,280,954
—, formation of in sealing porous castings, 1,384,033
—, gauze made with, 1,504,911
—, insulation, heat, made with, 1,235,061
—, iron, lead coated, made with, 1,505,109
—, kaolin gauze made with, 1,504,911
—, lead, iron coated with, made with, 1,505,109
—, lead chromate made with, 1,484,088
—, leather, artificial, dyeing of using, 1,186,052
—, lubricant made with, 1,145,877
—, mfr. of, alum for, 1,504,911
—, —, aluminum sulfate for, 1,265,357
—, —, lead acetate for, 1,265,357; 1,504,911
—, —, process for, 1,504,911
—, packing, lubricating, made with, 1,145,877
—, paint made with, 1,181,588; 1,183,665
—, paper, coated, made with, 1,265,357
—, —, etchable coating for, made with, 1,265,357
—, —, parchment, imitation, mfr. of, using, 1,380,428
—, —, sizing of, using, 1,211,288
—, —, waterproofing of, using, 1,380,428
—, pectin product made with, 1,497,884
—, pigment made with, 1,181,588; 1,183,665; 1,484,088

Aluminum acetate, substitute for, formaldehyde-sulfurous acid, aluminum salt of, as, 1,149,712
—, textile, waterproofing of, using, 1,228,987; 1,228,988
—, therapeutic compound of, mfr. of, acid, organic, hydroxy, for, 1,132,709
—, —, —, aluminum acetate for, 1,132,709
—, —, —, ammonia for, 1,132,709
—, —, —, citric acid for, 1,132,709
—, —, —, formaldehyde for, 1,132,709
—, —, —, glycerol for, 1,132,709
—, —, —, hexamethylenetetramine for, 1,132,709
—, —, —, hexamethylenetetramine-aluminum acetate for, 1,132,709
—, —, —, hexamethylenetetramine-lactate for, 1,132,709
—, —, —, lactic acid for, 1,132,709
—, —, —, mannitol for, 1,132,709
—, —, —, process for, 1,132,709
—, —, —, tartaric acid for, 1,132,709
—, —, solvent for, acetic acid as, 1,132,709
—, —, —, acetic acid, glacial, as, 1,132,709
—, —, —, acetone as, 1,132,709
—, —, —, alcohol as, 1,132,709
—, —, —, benzene as, 1,132,709
—, —, —, ether as, 1,132,709
—, —, —, hydrochloric acid as, 1,132,709
—, —, —, sodium hydroxide as, 1,132,709
—, —, —, sulfuric acid as, 1,132,709
—, —, —, water as, 1,132,709
—, viscose material treated with, 1,404,535
—, waterproofing using, 1,228,987; 1,228,988; 1,242,327; 1,380,428; 1,400,579
—, waterproofing with sodium palmitate and, 1,374,122
Aluminum alcoholate, catalyst, ethyl acetate made with, 1,459,852
Aluminum alginate, articles of, 1,348,459
—, cardboard coated with, 1,162,926
—, concrete waterproofed with, 1,415,324
—, fabric coated with, 1,162,926
—, leather coated with, 1,162,926
—, oilproofing by means of, 1,395,016
—, paper coated with, 1,162,926
—, pasteboard coated with, 1,162,926
—, preparation of, 1,395,016; 1,415,849; 1,415,850
—, properties of, 1,162,926
—, textile coated with, 1,162,926
Aluminum alkali, see Alkali aluminum
Aluminum alkali alginate, see Alkali aluminum alginate
Aluminum alkali compounds, see Alkali aluminum compounds
Aluminum alkali fluoride, see Alkali aluminum fluoride
Aluminum alloy, 1,412,280; Re-15,407
—, alkali earth metals in, 1,412,280; Re-15,407
—, alkali metal in, 1,410,461; 1,508,556
—, aluminum in, 1,261,987; 1,280,706; 1,371,214
—, aluminum compound made with, 1,229,611
—, aluminum 95.5, magnesium 0.5, copper 3, manganese 1, 1,130,785
—, aluminum nitride made with, 1,188,769
—, aluminum sulfate made with, 1,176,292; 1,229,611
—, ammonia made with, 1,229,611
Aluminum alloy, antimony in, 1,247,977
—, beryllium in, 1,254,987
—, bismuth in, 1,410,461
—, cadmium in, 1,146,185; 1,227,174; 1,410,461
—, —, battery, storage, made with, 1,366,010
—, calcium in, 1,412,280; Re-15,407; 1,472,738
—, —, mfr. of, process for, 1,224,362
—, —, match made with, 1,360,283; Re-15,039
—, carbon in, 1,518,321
—, cartridge case made from, 1,510,590
—, case hardening using, 1,518,607
—, casting of, apparatus for, 1,215,243
—, —, process for, 1,215,243
—, catalyst, hydrocyanic acid made with, 1,492,193; 1,492,194
—, cathode made with, 1,468,838; 1,470,883
—, cesium in, 1,410,461
—, chromium in, 1,261,987; 1,371,214; 1,472,738; 1,472,739; 1,472,740; 1,480,779; 1,485,158; 1,510,590
—, —, mfr. of, process for, 1,453,254
—, coating of, treatment of surface for, acid for, 1,144,000
—, —, —, alkali for, 1,144,000
—, —, —, alkali hydroxide for, 1,144,000
—, —, —, alum for, 1,144,000
—, —, —, aluminum salt for, 1,144,000
—, —, —, ammonium aluminum sulfate for, 1,144,000
—, —, —, metal fluoride for, 1,144,000
—, —, —, nitric acid for, 1,144,000
—, —, —, potash for, 1,144,000
—, —, —, process for, 1,144,000
—, —, —, soda for, 1,144,000
—, —, —, sulfuric acid for, 1,144,000
—, —, —, tin chloride for, 1,144,000
—, —, —, tin salt for, 1,144,000
—, cobalt in, mfr. of, process for, 1,453,254
—, colloidal suspensions made with, 1,499,600
—, copper in, 1,130,785; 1,146,185; 1,147,398; 1,156,093; 1,212,374; 1,227,174; 1,247,977; 1,261,987; 1,280,706; 1,318,702; 1,371,214; 1,410,461; 1,412,280; Re-15,407; 1,472,738; 1,472,739; 1,472,740; 1,480,846; 1,485,158; 1,508,556; 1,510,590; 1,518,321; 1,518,760
—, copper, castings made of, 1,156,093
—, copper, golf ball, mold for, made with, 1,491,816; 1,491,817
—, —, iron, coating of using, 1,171,856
—, —, iron coated with, made with, 1,244,414
—, —, light producing apparatus made using, 1,419,360
—, —, mfr. of, aluminum carbide for, 1,220,843
—, —, —, aluminum chloride for, 1,220,843
—, —, —, aluminum oxide for, 1,220,843
—, —, —, aluminum sulfide for, 1,220,843
—, —, —, copper chloride for, 1,220,843
—, —, —, copper oxide for, 1,220,843
—, —, —, copper sulfide for, 1,220,843
—, —, —, process for, 1,220,843; 1,453,254
—, —, metal coated with, made with, 1,244,414
—, —, melting of, process for, 1,160,430
—, —, mold, die casting, made with, 1,491,816; 1,491,817
—, —, steel, coating of using, 1,171,856
—, —, steel coated with, made with, 1,244,414
—, copper cathode made with, 1,468,838

Aluminum alloy, copper compound made with, 1,229,611
—, copper plating, 1,457,149
—, cracking of, preventing, calcium for, 1,412,280
—, crucible, clay, made with, 1,374,910
—, —, graphite, made with, 1,374,910
—, dissolving, 1,353,773
—, electric coils mfr. from wire of, 1,431,237
—, ferro-silicon in, 1,382,147
—, flux for, sodium chloride as, 1,519,204
—, forging, temperature suitable for, 1,374,968
—, formula, aluminum 95.5%, copper 1.5%, magnesium 2.0%, iron group 1.0%, 1,510,590
—, —, aluminum 75-85, nickel 5-15, copper 7-10, 1,147,398
—, —, aluminum 108, zinc 46, copper 20, 1,212,374
—, —, copper 9-20%, aluminum 91-80%, 1,156,093
—, —, copper 3.98%, calcium 0.64%, silicon 0.29%, 1,472,738
—, —, copper 4.68%, chromium 0.68%, 1,472,738
—, —, copper 3.95%, iron 1.22%, silicon 0.31%, 1,472,738
—, —, copper 4.5%, magnesium 0.5%, silicon 0.75%, 1,472,740
—, —, —, —, manganese 0.5%, 1,472,740
—, —, —, manganese 0.5-.1%, 1,472,738
—, —, —, manganese 0.75%, silicon 0.75%, 1,472,738
—, —, silicon 0.5-4.0%, magnesium 0.5-4.0%, 1,472,739
—, gear made with, 1,371,214; 1,485,158
—, gelatin (photography), treatment of, using, 1,499,600
—, golf ball, mold for, made with, 1,491,816
—, hardness increased of, process for, 1,326,775
—, heater, chemical, made with, 1,506,322; 1,506,323
—, heat treatment of, 1,394,534; 1,508,556
—, hydrogen made with, 1,506,323
—, insulation, electric, for, mfr. of, acid for, 1,137,986
—, —, —, —, —, alcohol for, 1,137,986
—, —, —, —, —, alkali for, 1,137,986
—, —, —, —, —, benzine for, 1,137,986
—, —, —, —, —, india-rubber for, 1,137,986
—, —, —, —, —, oil, rancid, for, 1,137,986
—, —, —, —, —, oleic acid for, 1,137,986
—, —, —, —, —, oxidizing material for, 1,137,986
—, —, —, —, —, phenols for, 1,137,986
—, —, —, —, —, pitch for, 1,137,986
—, —, —, —, —, process for, 1,137,986
—, —, —, —, —, resin for, 1,137,986
—, —, —, —, —, rubber cement for, 1,137,986
—, —, —, —, —, tar for, 1,137,986
—, —, —, —, —, varnish for, 1,137,986
—, —, —, —, —, water for, 1,137,986
—, —, —, —, —, wax for, 1,137,986
—, iron in, 1,227,174; 1,261,987; 1,280,706; 1,410,461; 1,472,738; 1,480,779; 1,480,846; 1,508,556; 1,510,590
—, iron, compound body of and, mfr. of, process for, 1,180,248; 1,180,249
—, —, copper coated, made with, 1,244,414
—, —, mfr. of, process for, 1,453,254
—, —, zinc coated, made with, 1,244,414

Aluminum alloy, iron, see also Ferro-aluminum
—, lead in, 1,518,321
—, lithium in, 1,410,461
—, magnesium in, 1,130,785; 1,132,376; 1,175,655; 1,227,174; 1,261,987; 1,359,813; 1,371,214; 1,382,147; 1,412,280; Re-15,407; 1,472,738; 1,472,739; 1,472,740; 1,485,158; 1,508,556; 1,510,590; 1,518,321; 1,518,760
—, —, colloidal solutions made using, 1,514,737
—, —, diaphragm, phonograph, made with, 1,380,498
—, —, match made with, 1,360,283; Re-15,039
—, magnesium in, rubber article made in mold of, 1,329,312
—, manganese in, 1,130,785; 1,227,174; 1,261,987; 1,280,706; 1,305,551; 1,371,214; 1,412,280; Re-15,407; 1,472,738; 1,472,739; 1,472,740; 1,485,158; 1,508,556; 1,510,590; 1,518,321
—, —, light producing apparatus made using, 1,419,360
—, —, mfr. of, process for, 1,453,254
—, mfr. of, 1,422,591; 1,453,928; 1,458,290
—, —, acacia for, 1,230,958
—, —, alumina for, 1,512,462
—, —, aluminum for, 1,261,987; 1,326,971; 1,518,760
—, —, aluminum carbide for, 1,220,843; 1,512,462
—, —, aluminum chloride for, 1,220,843
—, —, aluminum hydroxide for, 1,512,462
—, —, aluminum oxide for, 1,220,843; 1,512,462
—, —, aluminum sulfide for, 1,220,843; 1,512,462
—, —, alundum for, 1,512,462
—, —, amido substitution products of meta-carbonic acid for, 1,362,739
—, —, apparatus for, 1,132,376; 1,175,655
—, —, bauxite for, 1,379,523; 1,512,462
—, —, bismuth oxide for, 1,230,958
—, —, borax for, 1,230,958; 1,326,971
—, —, boric acid for, 1,326,971
—, —, calcium carbide for, 1,512,462
—, —, calcium fluoride for, 1,512,462
—, —, calcium sulfate for, 1,512,462
—, —, calcium sulfide for, 1,512,462
—, —, carbides for, 1,512,462
—, —, carbon for, 1,512,462
—, —, chalcopyrite for, 1,512,462
—, —, charcoal for, 1,326,971; 1,512,462; 1,518,321
—, —, chromium for, 1,261,987
—, —, clay for, 1,512,462
—, —, coal, anthracite, for, 1,512,462
—, —, coke for, 1,512,462
—, —, coke dust for, 1,512,462
—, —, copper for, 1,261,987; 1,318,702; 1,518,321; 1,518,760
—, —, cupro-manganese for, 1,518,321
—, —, ferro-aluminum for, 1,227,174
—, —, ferro-copper for, 1,227,174
—, —, ferro-silicon for, 1,382,147
—, —, ferro-zinc for, 1,227,174
—, —, glass, powdered, for, 1,230,958
—, —, graphite for, 1,512,462
—, —, iron for, 1,227,174; 1,261,987; 1,512,462
—, —, iron sulfide, (FeS) for, 1,512,462
—, —, lead, red, for, 1,230,958
—, —, lime for, 1,512,462

Aluminum alloy, mfr. of, magnesium for, 1,132,376; 1,175,655; 1,261,987; 1,382,147
—, —, magnesium sulfate for, 1,512,462
—, —, magnesium sulfide for, 1,512,462
—, —, manganese for, 1,261,987; 1,518,321
—, —, metal chloride for, 1,220,843
—, —, metal oxide for, 1,220,843
—, —, metal sulfide for, 1,220,843
—, —, molybdenum for, 1,261,987
—, —, nickel for, 1,261,987; 1,518,760
—, —, oxide alundum for, 1,512,462
—, —, phosphor copper for, 1,175,655
—, —, phosphor tin for, 1,132,376; 1,175,655
—, —, phosphorus for, 1,132,376; 1,175,655
—, —, process for, 1,132,376; 1,175,655; 1,220,843; 1,227,174; 1,230,958; 1,261,987; 1,277,046; 1,278,304; 1,318,702; 1,326,971; 1,382,147; 1,453,254; 1,508,556; 1,512,462; 1,518,321; 1,518,760
—, —, pyrite for, 1,512,462
—, —, pyrrhotite for, 1,512,462
—, —, quartz for, 1,512,462
—, —, silica for, 1,230,958
—, —, silver for, 1,261,987
—, —, sodium for, 1,175,655
—, —, sodium chloride for, 1,326,971
—, —, sodium fluoride for, 1,382,147
—, —, steam for, 1,512,462
—, —, tin for, 1,326,971
—, —, tin foil for, 1,132,376
—, —, titanium for, 1,261,987; 1,318,702
—, —, tungsten for, 1,261,987
—, —, vanadium for, 1,261,987; 1,318,702
—, —, varnish for, 1,230,958
—, —, zinc in, 1,318,702; 1,326,971
—, —, zirconium for, 1,382,147
—, metal, copper coated, made with, 1,244,414
—, —, zinc coated, made with, 1,244,414
—, metals scavenged with, 1,460,830
—, melting of, process for, 1,160,430
—, mold, die casting, made with, 1,491,816
—, molybdenum in, 1,261,987; 1,472,740; 1,510,590
—, —, mfr. of, process for, 1,453,254
—, nickel in, 1,147,398; 1,227,174; 1,261,987; 1,472,739; 1,472,740; 1,480,779; 1,510,590; 1,518,760
—, —, mfr. of, process for, 1,453,254
—, nickel plating, 1,457,149
—, phosphorus in, 1,132,376; 1,175,655; 1,254,854
—, potassium in, 1,410,461
—, recovery from scrap of, apparatus for, 1,260,312
—, —, process for, 1,260,312
—, recovery from waste material of, process for, 1,519,204
—, —, sodium for, 1,519,204
—, resistance, electric, made with, 1,134,788
—, rubidium in, 1,410,461
—, silicon in, 1,410,461; 1,453,928; 1,472,738; 1,472,739; 1,472,740; 1,508,556; 1,510,590
—, —, mfr. of, aluminum for, 1,480,779
—, —, —, chromium for, 1,480,779
—, —, —, ferro-silicon for, 1,480,779
—, —, —, nickel for, 1,480,779
—, —, —, process for, 1,480,779
—, —, —, rare earth metal for, 1,480,779
Aluminum alloy, silver in, 1,146,185; 1,247,977; 1,261,987
—, sodium in, 1,175,655
—, sodium chloride made using, 1,499,600
—, solder for, 1,145,307
—, soldering of, beeswax for, 1,516,759
—, —, butter for, 1,516,759
—, —, chicken fat for, 1,516,759
—, —, cow fat for, 1,516,759
—, —, fat, animal, for, 1,516,759
—, —, fish fat for, 1,516,759
—, —, lamb butter for, 1,516,759
—, —, lamb fat for, 1,516,759
—, —, oil, vegetable, for, 1,516,759
—, —, olive oil for, 1,516,759
—, —, pig fat for, 1,516,759
—, —, sesame oil for, 1,516,759
—, soldering flux for, alkali bisulfate in, 1,139,923
—, —, alkali pyrosulfate in, 1,139,923
—, —, borax in, 1,139,923
—, —, sodium bisulfate in, 1,139,923
—, "standard," composition of, 1,305,300
—, steel, compound body of and, mfr. of, process for, 1,180,248; 1,180,249
—, —, copper coated, made with, 1,244,414
—, —, zinc coated, made with, 1,244,414
—, steel and iron united in bath of, 1,455,307
—, terminal, electric, made with, 1,134,788
—, tin in, 1,132,376; 1,175,655; 1,254,854; 1,280,706
—, titanium in, 1,261,987; 1,318,702; 1,510,590
—, tungsten in, 1,261,987; 1,510,590
—, vanadium in, 1,126,484; 1,261,987; 1,318,702; 1,510,590
—, water, boiler, treatment of, using, 1,499,600
—, —, ice plant, treatment of, using, 1,499,600
—, —, purifying of, apparatus electrode contg., 1,446,029
—, —, treatment of, using, 1,499,600
—, water gas made with, 1,506,323
—, welding flux for, alkali bisulfate in, 1,139,923
—, —, alkali pyrosulfate in, 1,139,923
—, —, borax in, 1,139,923
—, —, sodium bisulfate in, 1,139,923
—, zinc in, 1,212,374; 1,227,174; 1,247,977; 1,280,706; 1,318,702; 1,410,461; 1,472,738; 1,508,556; 1,510,590; 1,518,760
—, zinc, catalyst, gasolene made with, 1,235,523
—, —, —, kerosene made with, 1,235,523
—, —, iron coated with, made with, 1,244,414
—, —, metal coated with, made with, 1,244,414
—, —, melting of, process for, 1,160,430
—, —, steel coated with, made with, 1,244,414
—, zirconium in, 1,382,147
—, *see also Aluminum bronze; Ferro-silico-aluminum-manganese*
Aluminum alloy electrode, lightning arrester made with, 1,179,380
—, nitrogen oxides mfr. with, 1,266,717
—, sewage, softening of, using, 1,222,637
—, —, treatment of, using, 1,222,637
—, water, softening of, using, 1,222,637
—, —, treatment of, using, 1,222,637
Aluminum alloy powder, transfer metallic product made with, 1,515,722

Aluminum amalgam, colloidal solutions made using, 1,514,737
—, mfr. of, aluminum for, 1,305,301
—, —, mercuric chloride for, 1,305,301
—, —, sodium hydroxide for, 1,305,301
—, *N*-methyl-aniline made with, 1,221,077
—, screen, motion picture, made with, 1,128,867
—, tropic acid made with, 1,305,301
Aluminum ammonium alginate, mfr. of, process for, 1,162,926
Aluminum ammonium fluoride, aluminum hydroxide from, 1,426,891
—, ammonium bifluorides from, 1,426,891
—, formation of, 1,426,891
—, *see also Ammonium aluminum fluoride*
Aluminum ammonium sulfate, acetic acid, concentration of, using, 1,492,717; 1,492,718
—, acetone, concentration of, using, 1,492,717
—, adhesive, fireproof, made with, 1,248,092
—, airplane dope contg., 1,429,295
—, airplane fabric made with, 1,429,295
—, aluminum, coating of, treatment of surface before using, 1,144,000
—, aluminum alloy, coating of, treatment of surface before using, 1,144,000
—, aluminum hydroxide made with, 1,280,636; 1,493,320; 1,512,897
—, aluminum hydroxide, catalyst, made with, 1,512,897
—, aluminum oxide made with, 1,280,636; 1,512,897
—, barrel lining contg., 1,323,528
—, catalyst, aluminum hydroxide as, made with, 1,512,897
—, ethyl alcohol, concentration of, using, 1,492,717
—, fertilizer contg., 1,289,788
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,248,092
—, formic acid, concentration of, using, 1,492,717
—, fuel, liquid, made with, 1,475,259
—, lake made with, 1,512,897
—, mfr. of alunogen for, 1,280,636
—, —, ammonium sulfate for, 1,232,553; 1,254,229; 1,280,636
—, —, apparatus for, 1,280,636
—, —, carbon dioxide for, 1,232,553
—, —, feldspar for, 1,232,553
—, —, halotrichite for, 1,280,636
—, —, lime for, 1,232,553
—, —, niter cake for, 1,232,553
—, —, process for, 1,232,553; 1,280,636
—, —, sodium aluminum sulfate for, 1,254,229
—, —, sulfuric acid for, 1,232,553
—, methyl acetate, concentration of, using, 1,492,717
—, methyl alcohol, concentration of, using, 1,492,717
—, paint, fireproof, made with, 1,248,092
—, paper, fireproof sizing for, made with, 1,248,092
—, —, waterproof, made with, 1,307,405
—, phosphorescent compound made with, 1,244,058
—, pulley covering contg., 1,458,828
—, silk stockings treated with, 1,500,026
Aluminum ammonium sulfate, silver image toned by, 1,450,412
—, silver image treated with, 1,389,742
—, starch, fire proof, made with, 1,248,092
—, steel tinplated with, 1,396,051
—, tanning with, 1,191,527; 1,415,671; 1,427,221
—, tanning compound made with, 1,376,805
—, tanning process using, 1,415,671; 1,427,221
—, turpentine barrel lining contg., 1,323,528
—, varnish, fireproofing, made with, 1,248,092
—, water, purification of using, 1,158,225
—, *see also Alum; Ammonium alum*
Aluminum anilide, preparation of, 1,394,851
Aluminum anode, iron, lead coated, made with, 1,505,109
—, lamp, electric, made with, 1,188,194
—, lead, iron coated with, made with, 1,505,109
—, water purified using, 1,219,333
Aluminum antimoniate, enamel clouded using, 1,211,564
—, mfr. of, ammonium nitrate for, 1,211,564
—, —, process for, 1,211,564
Aluminum apparatus, acetic acid made with, 1,481,326
—, diastase made with, 1,227,525
—, diastase, amylolytic, made with, 1,227,525
—, —, proteolytic, made with, 1,227,525
—, toxins made with, 1,227,525
Aluminum arsenate, insecticide contg., 1,376,153
Aluminum arsenite, insecticide contg., 1,376,153
Aluminum article, filling for joints of, mfr. of, alum for, 1,223,458
—, —, —, aluminum bronze powder for, 1,223,458
—, —, —, barite for, 1,223,458
—, —, —, barium sulfate for, 1,223,458
—, —, —, borax for, 1,223,458
—, —, —, process for, 1,223,458
—, —, —, varnish for, 1,223,458
—, —, —, whiting for, 1,223,458
Aluminum bands, see Aluminum foil
Aluminum barium fluoride, enamel made with, 1,518,872
—, glass, opalescent, made with, 1,518,872
—, —, opaque, made with, 1,518,872
Aluminum beryllium silicate, beryllium chloride from 1,392,045
—, *see also Beryl*
Aluminum biborate, fireproofing using, 1,216,729
—, oak, red, fireproofing of, using, 1,216,729
—, pine, fireproofing of, using, 1,216,729
—, wood, fireproofing of, using, 1,216,729
Aluminum bisulfite, aluminum hydroxide from, 1,399,216; 1,399,217
—, chromic acid reduced with, 1,404,957
—, formation of, 1,399,216; 1,399,217
—, tanning with, 1,404,957
Aluminum borate, boric acid from, 1,373,179
—, dental cement contg., 1,408,960
—, dyes printed with, 1,426,299
—, dyestuff lakes from, 1,426,299
—, fireproofing using, 1,216,729
—, formation of, 1,394,978
—, —, aluminum sulfate and sodium borate for, 1,373,179
—, oak, red, fireproofing of, using, 1,216,729
—, pine, fireproofing of, using, 1,216,729
—, resistance, electric, made with, 1,246,165
—, wood, fireproofing of, using, 1,216,729

Aluminum bromide, acetal made with, 1,312,186
—, aluminum chloride made with, 1,445,082
—, catalyst, 1,198,943; 1,198,944
—, mfr. of, apparatus for, 1,308,885
—, —, process for, 1,308,885
—, preparation of, 1,445,082
Aluminum bronze, alloy contg., 1,300,058
—, composition of, 1,300,058
—, copper, iron, compound body of and made using, 1,180,248; 1,180,249
—, —, steel, compound body of and made using, 1,180,248; 1,180,249
—, copper covered, mfr. of, process for, 1,125,163
—, iron, compound body of and, mfr. of, process for, 1,180,248; 1,180,249
—, —, copper, compound body of and made using, 1,180,248; 1,180,249
—, mfr. of, aluminum for, 1,300,058; 1,432,289
—, —, copper for, 1,300,058
—, —, copper ore for, 1,432,289
—, —, process for, 1,432,289
—, —, tin for, 1,300,058
—, paint, aluminum, made with, 1,411,673
—, preparing, 1,432,289
—, steel, compound body of and, mfr. of, process for, 1,180,248; 1,180,249
—, —, copper, compound body of and made using, 1,180,248; 1,180,249
—, steel tube coated with, mfr. of, apparatus for, 1,125,159
—, —, —, borax for, 1,125,159
—, —, —, calcium chloride for, 1,125,159
—, —, —, cryolite for, 1,125,159
—, —, —, fluorspar for, 1,125,159
—, —, —, iron oxide, (Fe_3O_4), for, 1,125,159
—, —, —, process for, 1,125,159
—, —, —, producer gas for, 1,125,159
—, —, —, sodium chloride for, 1,125,159
—, —, —, sodium silicate for, 1,125,159
—, —, —, water gas for, 1,125,159
—, *see also Aluminum alloy; Alloy, copper in; Copper alloy; Copper alloy, aluminum in*
Aluminum bronze powder, aluminum article, filling for joints of, made with, 1,223,458
—, brass article, filling for joints of, made with, 1,223,458
—, container, metal, filling for joints of, made with, 1,223,458
—, copper article, filling for joints of, made with, 1,223,458
—, fabric covering, 1,124,087
—, ink, printing, made with, 1,203,779
—, iron, galvanized, article, filling for joints made with, 1,223,458
—, metal article, filling for joints of, made with, 1,223,458
—, screen, motion-picture, made with, 1,266,778
—, tin article, filling for joints of, made with, 1,223,458
Aluminum calcium alloy, match-head composition contg., Re-15,039; 1,360,283
Aluminum calcium fluoride, enamel, made with, 1,518,872
—, glass, opalescent, made with, 1,518,872
—, —, opaque, made with, 1,518,872
Aluminum calcium garnet, see Grossularite
Aluminum calcium silicate, formation of, calcium chloride for, 1,254,677
—, —, coke for, 1,254,677
—, —, feldspar for, 1,254,677
—, —, iron for, 1,254,677
—, —, iron oxide for, 1,254,677
—, —, potassium silicate for, 1,254,677
—, —, pyrite for, 1,254,677
—, —, pyrites clinker for, 1,254,677
—, mfr. of, 1,296,457
—, *see also Calcium aluminum silicate; Grossularite*
Aluminum calcium silicide, magnalium deoxidized with, 1,292,582
Aluminum carbide, abrasive contg., 1,448,586
—, alkali cyanide made with, 1,472,403
—, aluminum made with, 1,220,843; 1,512,462
—, aluminum alloy made with, 1,220,843; 1,512,462
—, aluminum alloy, copper in, made with, 1,220,843
—, aluminum chloride made with, 1,218,588; 1,270,226; 1,321,281; 1,405,183; 1,508,451
—, aluminum compound made with, 1,229,611
—, aluminum nitride made with, 1,188,769; 1,188,770; 1,188,771; 1,188,772; 1,252,649
—, aluminum oxide made with, 1,134,081; 1,228,119
—, aluminum sulfate made with, 1,176,292; 1,229,611
—, ammonia made with, 1,198,965; 1,229,611
—, arc-welding electrode contg., core of, 1,363,636
—, calcium made with, 1,512,462
—, calcium alloy made with, 1,512,462
—, coke made with, 1,482,438
—, copper, aluminum alloy contg., made with, 1,220,843
—, copper compound made with, 1,228,119; 1,229,611
—, electrode, welding, made with, 1,363,636
—, fat hydrogenated with, 1,472,882
—, fatty acid hydrogenated with, 1,472,882
—, formation of, 1,392,043; 1,392,044; 1,392,046
—, —, feldspar for, 1,445,645
—, gasolene made with, 1,482,438
—, hydrogenation process using, 1,472,882
—, kerosene made with, 1,482,438
—, lead compound made with, 1,228,119
—, mfr. of, alumina for, 1,137,617
—, —, aluminum ore for, 1,219,797
—, —, aluminum oxide for, 1,219,797; 1,222,593; 1,257,995; 1,270,226; 1,512,271
—, —, aluminum oxide ore for, 1,222,593
—, —, aluminum sulfate for, 1,270,226
—, —, alunite for, 1,137,617
—, —, apparatus for, 1,219,797; 1,222,593
—, —, bauxite for, 1,219,797; 1,222,593; 1,,270,226; 1,512,271
—, —, carbon for, 1,134,081; 1,137,617; 1,219,797; 1,222,593; 1,270,226; 1,512,271
—, —, carbon monoxide for, 1,137,617
—, —, coke for, 1,134,081; 1,137,617
—, —, feldspar for, 1,134,081
—, —, lamp black for, 1,137,617
—, —, leucite for, 1,134,081
—, —, nitrogen for, 1,137,617

Aluminum carbide, mfr. of, petroleum coke for, 1,219,797; 1,222,593
—, —, petroleum, residue, aluminum in, for, 1,222,593
—, —, process for, 1,134,081; 1,137,617; 1,219,797; 1,222,593; 1,257,995; 1,374,317; 1,512,271
—, —, producer gas for, 1,137,617
—, —, sand for, 1,134,081
—, —, silica for, 1,512,271
—, nitrogen, fixation of, using, 1,198,965
—, oil, animal, hydrogenated with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, —, mineral, hydrogenated with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, —, vegetable, non-sludging, made with, 1,472,882
—, petroleum, non-sludging, made with, 1,472,882
—, reducing agent in calcium aluminate mfr., 1,376,563
—, refractory made with, 1,198,033
—, silicon made with, 1,512,462
—, silicon alloy made with, 1,512,462
—, sodium cyanide made with, 1,472,403
—, zinc compound made with, 1,228,119
—, (Al_2C_3), aluminum carbonitride ($Al_2C_3N_6$), made with, 1,123,584; 1,129,506; 1,129,509
—, —, aluminum oxide made with, 1,129,505; 1,129,721
—, —, double nitrides made from metal carbide and, 1,123,585; 1,154,800
—, —, mfr. of, aluminum compound for, 1,129,506
—, —, —, aluminum oxide for, 1,129,509
—, —, —, aluminum silicates for, 1,129,505; 1,129,721
—, —, —, apparatus for, 1,129,509
—, —, —, carbon for, 1,129,505; 1,129,506; 1,129,509; 1,129,721
—, —, —, coal dust for, 1,129,505; 1,129,721
—, —, —, coke for, 1,129,505; 1,129,721
—, —, —, feldspar for, 1,129,506
—, —, —, hydrogen for, 1,129,505; 1,129,721
—, —, —, illuminating gas for, 1,129,505; 1,129,721
—, —, —, leucite for, 1,129,506
—, —, —, microcline for, 1,129,505; 1,129,721
—, —, —, nitrogen for 1,129,505 1,129,506; 1,129,509; 1,129,721
—, —, —, orthoclase for, 1,129,505; 1,129,721
—, —, —, potassium compound for, 1,129,506
—, —, —, potassium silicates for, 1,129,505; 1,129,721
—, —, —, process for, 1,129,505; 1,129,506; 1,129,509; 1,129,721
—, —, —, producer gas for, 1,129,509
—, —, —, silicon compound for, 1,129,506
—, —, —, silicon dioxide for, 1,129,506
—, —, instability of, 1,123,584
—, —, water, action of and, 1,129,505; 1,129,721
—, (Al_2C_6), acetylene made with, 1,123,584
—, —, aluminum carbide (Al_4C_3), made from, 1,123,584
—, (Al_4C_3), mfr. of, aluminum carbide (Al_2C_6), for, 1,123,584
—, —, —, aluminum oxide for, 1,129,509
Aluminum carbide (Al_4C_3), mfr. of, apparatus for, 1,129,509
—, —, —, carbon for, 1,129,509
—, —, —, nitrogen for, 1,129,509
—, —, —, process for, 1,129,509
—, —, —, producer gas for, 1,129,509
Aluminum carbonate, aluminum compound made with, 1,229,611
—, aluminum sulfate made with, 1,176,292; 1,229,611
—, ammonia made with, 1,229,611
—, arsenic compounds, marine animal oils, removal from of using, 1,247,516
—, basic, leather-board, water-proof, made with. 1,142,953
—, brick, fire, made with, 1,192,099
—, catalyst, for the mfr. of hydrocyanic acid, made with, 1,492,194
—, catalyst poisons, marine animal oils, removal from of using, 1,247,516
—, catalyst promoter, 1,271,013
—, chlorine compounds, marine animal oils, removal from of using, 1,247,516
—, cod oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, copper compound made with, 1,229,611
—, corn oil, hydrogenation of, using, 1,247,516
—, cotton seed oil, hydrogenation of, using, 1,247,516
—, cyanide derivatives, marine animal oils, removal from of using, 1,247,516
—, dye, sulfur, made with, 1,316,742
—, fish oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, formalydehyde-sulfurous acid, aluminum salt of, made with, 1,149,712
—, hydrocyanic acid, catalyst for the mfr. of, made with, 1,492,194
—, hydrogenation process using, 1,247,516
—, iodine compounds, marine animal oils, removal from of using, 1,247,516
—, marine animal oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, menhaden oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, oil, vegetable, hydrogenation of, using, 1,247,516
—, phosphorous compounds, marine animal oils, removal from of using, 1,247,516
—, sulfur compounds, marine animal oils, removal from of using, 1,247,516
—, whale oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
Aluminum carbonitride, alkali cyanide made with, 1,506,269
—, cyanides, made with, 1,506,269
—, ferrocyanides made with, 1,506,269
—, ($Al_2C_2.C_3N_4$), aluminum oxide made with, 1,154,801
—, —, ammonia made with, 1,154,801
—, —, mfr. of, aluminum oxide for, 1,154,801
—, —, —, carbon for, 1,154,801

Aluminum carbonitride (Al_2C_2-C_3N_4), mfr. of, nitrogen for, 1,154,801
—, —, —, process for, 1,154,801
—, —, —, producer gas for, 1,154,801
—, ($Al_2C_3N_6$), aluminum cyanide ($Al_2(CN)_6$), made with, 1,143,132
—, —, aluminum hydroxide made with, 1,129,509
—, —, aluminum nitride (Al_2N_2) made with, 1,143,132
—, —, aluminum oxide made with, 1,129,224; 1,129,505; 1,129,721; 1,134,413
—, —, ammonia made with, 1,129,224; 1,129,505; 1,129,514; 1,129,721; 1,134,413
—, —, ammonium carbonate made with, 1,129,509
—, —, decomposition of, 1,143,132
—, —, mfr. of, aluminum carbide (Al_2C_3) for, 1,123,584; 1,129,506; 1,129,509
—, —, —, aluminum compound for, 1,129,506
—, —, —, aluminum oxide for, 1,129,509; 1,143,132
—, —, —, aluminum phosphate for, 1,134,414
—, —, —, aluminum phosphate ($AlPO_4$) for, 1,129,514
—, —, —, aluminum silicates for, 1,129,224; 1,129,505; 1,129,721
—, —, —, apparatus for, 1,129,509; 1,143,132
—, —, —, carbon for, 1,129,224; 1,129,505; 1,129,506; 1,129,509; 1,129,514; 1,129,721; 1,134,413; 1,134,414; 1,143,132
—, —, —, coal dust for, 1,129,505; 1,129,721; 1,134,413
—, —, —, coke for, 1,129,505; 1,129,721; 1,134,413
—, —, —, feldspar for, 1,129,224; 1,129,506; 1,134,413
—, —, —, hydrogen for, 1,129,505; 1,129,721
—, —, —, illuminating gas for, 1,129,505; 1,129,721
—, —, —, leucite for, 1,129,224; 1,129,506
—, —, —, microcline for, 1,129,505; 1,129,721; 1,134,413
—, —, —, nitrogen for, 1,123,584; 1,129,224; 1,129,505; 1,129,506; 1,129,509; 1,129,514; 1,129,721; 1,134,413; 1,134,414; 1,143,132
—, —, —, orthoclase for, 1,129,224; 1,129,505; 1,129,721; 1,134,413
—, —, —, phosphate rock, alumina contg., for, 1,134,414
—, —, —, potassium aluminum silicate for, 1,134,413
—, —, —, potassium compound for, 1,129,506
—, —, —, potassium silicates for, 1,129,224; 1,129,505; 1,129,721
—, —, —, process for, 1,129,224; 1,129,505; 1,129,506; 1,129,509; 1,129,514; 1,129,721; 1,134,413; 1,134,414; 1,143,132
—, —, —, producer gas for, 1,129,509 1,134,413
—, —, —, "Redonda phosphate" for, 1,134,414
—, —, —, silicates for, 1,134,413
—, —, —, silicon compound for, 1,129,506
—, —, —, silicon dioxide for, 1,129,506
—, ($Al_5C_9N_{13}$), mfr. of, aluminum oxide for, 1,137,524
—, —, —, apparatus for, 1,137,524
—, —, —, carbon for, 1,137,524
—, —, —, nitrogen for, 1,137,524
—, —, —, process for, 1,137,524
Aluminum castings, porous, sealing, silica for, 1,383,517
—, —, —, sodium acetate and ammonium chloride for, 1,384,033
Aluminum cathode, alkali perborate made with, 1,281,983
—, bran extract made with, 1,189,023
—, flour, treatment of, using, 1,189,023
—, lamp, electric, made with, 1,188,194
—, sodium perborate made with, 1,281,983
—, zinc made with, 1,210,017; 1,241,966; 1,241,967
—, zinc, electrodeposition of, using, 1,255,439
Aluminum cement, electric heater made with, 1,318,838
Aluminum chips, ships building material of plaster of Paris and, 1,357,375
Aluminum chloride, abrasive from bauxite, iron and, 1,448,586
—, acenaphthene purified using, 1,441,417
—, acetal made with, 1,312,186
—, acetaldehyde-aniline condensate combined with, 1,444,865
—, acid value of, 1,421,436
—, adhesive made with, 1,284,495
—, aldehydolysis of, 1,467,733
—, aluminum made with, 1,220,843; 1,238,604; 1,297,946; 1,329,315; 1,506,104; 1,519,648
—, aluminum, purification with of, 1,269,236
—, aluminum alginate from, 1,415,849; 1,415,850
—, aluminum alginate gel prepared with, 1,415,324
—, aluminum alloy made with, 1,220,843
—, aluminum alloy, copper in, made with, 1,220,843
—, aluminum hydroxide made with, 1,323,228; 1,337,191; 1,376,153
—, aluminum linoleate from, 1,407,952
—, aluminum oleate made with, 1,519,803
—, aluminum hydroxide made with, 1,332,115
—, aluminum oxide made with, 1,327,536; 1,418,528; 1,426,890; 1,426,891; 1,496,264
—, aluminum oxide and chlorine from, 1,434,085
—, aluminum solder flux contg., 1,312,154
—, amine-formaldehyde condensate combined with, 1,444,865
—, ammonia for removal from oil of, 1,311,987
—, anhydrous, hydrocarbons broken down by, 1,337,317
—, —, mfr. of, 1,331,257; 1,375,116; 1,405,183
—, —, —, aluminum-zinc alloy for, 1,455,005
—, —, —, electrolytic for, 1,343,662
—, —, regeneration of, 1,464,373
—, aniline-acetaldehyde condensate combined with, 1,444,865
—, anthracene made with, 1,515,325
—, anti-static photographic film contg., 1,431,900; 1,434,453
—, anti-sudorific contg., 1,371,822
—, argentite, treatment of using, 1,441,063
—, arsenic trisulfide precipitated with, 1,373,179
—, artificial slate binder contg., 1,362,563
—, battery, dry, made with, 1,506,196; 1,515,912
—, —, —, electrolyte for contg., 1,140,826
—, bauxite for removal from oil of, 1,311,987
—, benzine made with, 1,274,913; 1,325,299

Aluminum chloride, benzoyl-benzoic acid made with, 1,489,744
—, *o*-benzoyl-benzoic acid made with, 1,515,325
—, beryllium chloride separated from, 1,418,527
—, calcium aluminate, action of on, 1,332,115
—, calcium carbonate for removal from oil of, 1,311,987
—, carbon, colloidal, precipitated by, 1,416,955
—, case hardening using, 1,518,607
—, catalyst, 1,373,653
—, —, benzene acetylized using, 1,512,225
—, —, benzine made with, 1,325,299
—, —, cellulose acetation of, 1,379,699
—, —, cellulose saccharification of, 1,428,217
—, —, chlorinating of, 1,362,355
—, —, 2-chlor-propane made with, 1,518,182
—, —, ethyl acetate made with, 1,459,852
—, —, ethyl chloride made with, 1,518,182
—, —, gasolene made with, 1,144,304; 1,193,540; 1,193,541; 1,202,081; 1,206,874; 1,424,574; 1,460,110; 1,476,091
—, —, hydrocarbon made with, 1,477,058
—, —, hydrocarbon conversion of, 1,430,109
—, —, hydrocarbon cracking of, 1,381,098
—, —, kerosene made with, 1,144,304; 1,202,081; 1,206,874; 1,476,091
—, —, lubricating oil made with, 1,309,432; 1,350,814
—, —, metaldehyde made with, 1,467,733
—, —, naphtha made with, 1,193,540; 1,193,541
—, —, naphthene made from butenes and, 1,395,620
—, —, oil cracking of, 1,427,626
—, —, oleoresin, artificial, made with, 1,469,709
—, —, organic synthesis of, 1,355,100
—, —, phenol ethers made with, 1,469,709
—, —, recovery of, 1,460,110
—, —, —, alcohols for, 1,202,081
—, —, —, benzene for, 1,202,081
—, —, —, chloroform for, 1,202,081
—, —, —, ethyl alcohol for, 1,202,081
—, —, —, gasolene for, 1,202,081
—, —, —, hydrocarbon, chlorinated, for, 1,202,081
—, —, —, kerosene for, 1,202,081
—, —, —, methyl alcohol for, 1,202,081
—, —, —, petroleum ether for, 1,202,081
—, —, —, process for, 1,202,081
—, —, —, tar oil for, 1,202,081
—, —, regeneration of, process for, 1,206,874
—, —, resin, artificial, made with, 1,469,709
—, —, toluene made with, 1,477,058
—, —, vinyl chloride made with, 1,445,168
—, cellulose sulfite liquor treated with, 1,441,243
—, cement, Portland, waterproof, made with, 1,285,636
—, —, waterproof, made with, 1,285,636
—, cement regulating composition contg., 1,436,276
—, chalocite, treatment of using, 1,441,063
—, China wood oil solidified by, 1,383,864
—, chlorbenzene made with, 1,180,964
—, chlorbenzoyl benzoic acid made with, 1,355,100; 1,489,744; 1,515,325
—, 2-(*p'*chlorbenzoyl)-benzoic acid made with, 1,355,100
—, chlorine made with, 1,506,104
—, chrome yellow made with, 1,484,088
Aluminum chloride, cigarette holder made with, 1,482,357
—, cloth, cement for, made with, 1,482,357
—, coal tar oil, contg., removal of from, 1,311,987
—, coke made with, 1,482,438
—, concrete, waterproof, made with, 1,285,636
—, copal, chlorination of using, 1,129,165
—, copper, aluminum alloy contg., made with, 1,220,843
—, copper prevented from corroding by, 1,335,209; 1,335,210
—, copper sulfide ore, treatment of using, 1,441,063
—, cracked oils, recovery from of, 1,427,626
—, crude, aluminum chloride made with, 1,308,885
—, crystals, mfr. of, 1,403,061
—, Crystal Violet made with, 1,402,195
—, crystallized, mfr. of, 1,430,449
—, cumarone polymerized with, 1,292,907; 1,292,908; 1,416,062
—, cyanamide granulated using, 1,495,551
—, decomposing, 1,417,831
—, decomposition of into hydrochloric acid, 1,401,113
—, 4.4'-diamino-*m.m'*-biphenol made with, 1,210,751
—, dipiperidylmethylenediamine combined with, 1,444,865
—, dyestuff made with, 1,169,404; 1,196,127; 1,210,751; 1,340,696; 1,513,851
—, electrolysis of, 1,329,315
—, —, chlorine from, 1,297,946
—, —, sodium chloride for, 1,297,946
—, enamel, opaque, made with, 1,314,831
—, ethyl acetate made with, 1,459,852
—, ethyl alcohol made with, 1,428,217
—, fabric, brocaded effect on, made using, 1,513,370
—, fabrics carbonized with, 1,425,520
—, fat, chlorination of using, 1,129,165
—, fat hydrogenated with, 1,472,882
—, fatty acid, hydrogenated with, 1,472,882
—, film, photographic, made with, 1,431,900; 1,434,453
—, fire extinguisher contg., 1,421,436
—, flooring made with, 1,383,864
—, flotation of minerals with, 1,425,185
—, flotation of ores with, 1,425,186
—, fluorene purified using, 1,441,417
—, formaldehyde-amine condensate combined with, 1,444,865
—, formaldehyde-sulfurous acid, aluminum salt of, 1,149,712
—, formaldehyde-urea condensate made with 1,482,357
—, formation of, 1,327,536; 1,332,018; 1,426,890 1,426,891; 1,437,191; 1,464,373
—, —, clay and chlorine for, 1,329,315
—, —, electrolytic method for, 1,335,210
—, —, minerals for, 1,417,831
—, fullers earth for removal from oil of, 1,311,987
—, 2-furaldehyde made with, 1,428,217
—, galena, treatment of using, 1,441,063

Aluminum chloride, gasolene made with, 1,127,465; 1,274,912; 1,274,913; 1,277,328; 1,277,329; 1,322,762; 1,322,878; 1,326,072; 1,326,073; 1,373,653; 1,405,054; 1,424,574; 1,478,444; 1.482,438; 1,501,014
—, gasolene, cracked, treatment of, using 1,492,969
—, gasolene mfr. in presence of, 1,373,653
—, gasolene purified with, 1,277,329
—, gelatin hardening agent, 1,430,347
—, glass made with, 1,287,005
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, —, semi-translucent, made with, 1,287,005
—, glaze, opaque, made with, 1,314,831
—, glucose made with, 1,428,217
—, glucose, decolorizing of, using, 1,511,472
—, —, purification of, using, 1,511,472
—, gum, artificial, made with, 1,225,749; 1,225,750
—, handle made with, 1,482,357
—, hexamethylbenzene made with, 1,134,956
—, hydrated, aluminum chloride made with, 1,308,885
—, hydrocarbon made with, 1,274,913
—, hydrocarbon, cracked, treatment of, using, 1,492,969
—, —, diolefin, made with, 1,179,408
—, —, heavy, recovery from of, 1,426,081
—, —, recovery from of, 1,430,109; 1,460,110
—, —, saturated, made with, 1,326,072; 1,326,073; 1,501,014
—, —, unsaturated, treated with, 1,326,072; 1,326,073
—, hydrocarbon boiling points lowered by action of, 1,334,033
—, hydrocarbon purified using, 1,441,417
—, hydrochloric acid made with, 1,401,113; 1,426,890; 1,426,891; 1,506,104
—, hydrochloric acid and aluminum oxide from, 1,434,085
—, hydrocyanic acid made with, 1,497,690
—, hydrogenation process using, 1,472,882
—, indene polymerized with, 1,292,907; 1,292,908
—, insecticide made with, 1,376,153
—, insulation, electric, made with, 1,453,726
—, iron, rust-proofing, with, 1,320,734
—, iron removed from, 1,297,946
—, iron chloride, removal of from, 1,269,236
—, —, separation of from, 1,300,205
—, iron(ic) chloride, separation of from, 1,325,203
—, ivory, imitation, made with, 1,482,357
—, ivory substitute made with, 1,482,357
—, kerosene made with, 1,127,465; 1,322,762; 1,322,878; 1,326,072; 1,326,073; 1,478,444; 1,482,438; 1,501,014
—, kerosene purified with, 1,277,329
—, kerosene treated with, 1,277,328; 1,277,329
—, lead chromate made with, 1,484,088
—, lead and silver chloride dissolved by, 1,396,740
—, lead sulfide ore, treatment of using, 1,441,063
—, lubricating oil made with, 1,127,465; 1,374,277
—, lubricating oil purified with, 1,277,329
—, lubricating oil treated with, 1,206,874
—, magnesium made with, 1,258,261

Aluminum chloride, mfr. of, air for, 1,147,832
—, —, alumina for, 1,147,832; 1,217,471; 1,366,626
—, —, alumina crucible for, 1,165,065
—, —, aluminiferous material for, 1,519,880
—, —, aluminous material for, 1,366,626
—, —, aluminum for, 1,127,465; 1,165,065; 1,218,588; 1,238,604; 1,241,796; 1,268,015; 1,270,226; 1,308,885; 1,324,143; 1,375,116; 1,422,560; 1,474,479; 1,509,605
—, —, aluminum carbide for, 1,218,588; 1,270,226; 1,321,281; 1,405,183; 1,508,451
—, —, aluminum chloride, crude, for, 1,308,885
—, —, —, hydrated, for, 1,308,885
—, —, —, spent catalyst contg., for, 1,144,304
—, —, aluminum dross for, 1,354,818
—, —, aluminum nitride for, 1,372,332
—, —, aluminum nitride and chlorine for, 1,372,332
—, —, aluminum ore for, 1,468,632; 1,478,822; 1,508,451
—, —, aluminum oxide for, 1,127,465; 1,144,304; 1,268,015; 1,270,226; 1,308,080; 1,308,885; 1,324,143; 1,325,203; 1,354,818; 1,375,116; 1,422,560; 1,422,568; 1,468,632; 1,478,822; 1,489,021; 1,490,021; 1,503,648; 1,508,451; 1,509,605; 1,519,648
—, —, aluminum silicates for, 1,238,604; 1,360,312; 1,478,822; 1,489,021; 1,506,104; 1,507,709; 1,508,451; 1,519,648
—, —, aluminum sulfate for, 1,270,226
—, —, aluminum sulfide for, 1,270,226; 1,308,885
—, —, ammonium hydroxide for, 1,277,773
—, —, anorthosite for, 1,302,852
—, —, antimony for, 1,270,226
—, —, apparatus for, 1,218,588; 1,238,604; 1,241,796; 1,268,015; 1,270,226; 1,308,885; 1,321,281; 1,422,560; 1,468,632; 1,478,822; 1,503,648; 1,506,104; 1,508,451; 1,512,419; 1,519,648
—, —, alunite for, 1,277,773; 1,320,193
—, —, asphalt for, 1,217,471; 1,508,451
—, —, bauxite for, 1,147,832; 1,165,065; 1,217,471; 1,268,015; 1,270,226; 1,308,080; 1,308,885; 1,324,143; 1,325,203; 1,354,818; 1,366,626; 1,422,560; 1,422,568; 1,489,021; 1,490,021; 1,503,648; 1,508,451; 1,509,605; 1,519,648
—, —, beet sugar residue for, 1,320,193
—, —, biotite for, 1,320,193
—, —, bismuth chloride for, 1,321,281
—, —, bituminous shale for, 1,506,104
—, —, blast furnace dust for, 1,320,193
—, —, boron chloride for, 1,321,281
—, —, bromine for, 1,445,082; 1,474,479
—, —, cadmium chloride for, 1,321,281
—, —, calcium chloride for, 1,478,822
—, —, calcium oxide for, 1,325,203
—, —, carbon for, 1,127,465; 1,144,304; 1,147,832; 1,165,065; 1,217,471; 1,238,604; 1,257,995; 1,268,015; 1,270,226; 1,300,205; 1,302,852; 1,308,080; 1,308,885; 1,320,193; 1,324,143; 1,354,818; 1,366,626; 1,375,116; 1,422,560; 1,468,632; 1,489,021; 1,503,648; 1,506,104; 1,508,451; 1,509,605; 1,512,419
—, —, carbon, activated, for, 1,509,605
—, —, carbon bisulfide for, 1,325,203
—, —, carbon dioxide for, 1,478,822

Aluminum chloride, mfr. of, carbon dioxide, effect of on, 1,308,080
—, —, carbon monoxide for, 1,238,604; 1,308,080; 1,366,626
—, —, carbon tetrachloride for, 1,238,604; 1,300,205; 1,325,203; 1,366,626; 1,508,451
—, —, carbonyl chloride for, 1,308,080; 1,308,885; 1,360,312; 1,366,626; 1,508,451
—, —, cellulose sulfite liquor for, 1,375,116
—, —, cement-kiln dust for, 1,320,193
—, —, charcoal for, 1,270,226; 1,308,885
—, —, chlorine for, 1,127,465; 1,147,832; 1,165,065; 1,217,471; 1,238,604; 1,241,796; 1,268,015; 1,269,236; 1,270,226; 1,297,946; 1,300,205; 1,308,080; 1,308,885; 1,320,193; 1,323,228; 1,324,143; 1,325,203; 1,354,818; 1,366,626; 1,375,116; 1,422,560; 1,422,568; 1,468,632; 1,474,479; 1,489,021; 1,503,648; 1,506,104; 1,508,451; 1,509,605; 1,512,419; 1,519,648
—, —, chlorine and aluminum nitride for, 1,372,332
—, —, chlorine compound for, 1,238,604
—, —, clay for, 1,238,604; 1,241,796; 1,269,236; 1,297,946; 1,300,205; 1,478,822; 1,506,104; 1,509,605; 1,519,648; 1,519,880
—, —, clay, china, for, 1,507,709
—, —, coal for, 1,217,471; 1,238,604; 1,468,632; 1,508,451
—, —, coal, anthracite, for, 1,270,226
—, —, —, bituminous, for, 1,503,648
—, —, —, slatey, for, 1,506,104
—, —, coal tar residue for, 1,508,451
—, —, coke for, 1,144,304; 1,268,015; 1,325,203; 1,468,632; 1,508,451; 1,512,419
—, —, coke, oil, for, 1,270,226
—, —, —, petroleum, for, 1,308,080
—, —, —, petroleum tar, for, 1,325,203
—, —, coke breeze for, 1,238,604
—, —, copper(ic) chloride for, 1,321,281
—, —, copper(ous) chloride for, 1,321,281
—, —, diaspore for, 1,217,471; 1,519,648
—, —, feldspar for, 1,277,773; 1,320,193; 1,366,626
—, —, floridine for, 1,489,021
—, —, fullers earth for, 1,489,021
—, —, gibbsite for, 1,217,471
—, —, glauconite for, 1,323,228
—, —, graphite crucible for, 1,165,065
—, —, greensand for, 1,323,228
—, —, hydrargillite for, 1,519,648
—, —, hydrochloric acid for, 1,127,465; 1,144,304; 1,218,588; 1,222,960; 1,270,226; 1,277,773; 1,302,852; 1,308,885; 1,320,193; 1,323,228; 1,324,143; 1,478,822; 1,490,021; 1,496,264; 1,508,451; 1,509,605; 1,519,880
—, —, iron for, 1,320,193
—, —, iron(ous) chloride for, 1,320,193
—, —, iron oxide for, 1,320,193
—, —, iron(ous) salt for, 1,320,193
—, —, iron sulfide for, 1,320,193
—, —, kaolin for, 1,147,832; 1,241,796; 1,300,205; 1,478,822; 1,507,709; 1,519,648
—, —, labradorite for, 1,302,852
—, —, lampblack for, 1,270,226
—, —, lead chloride for, 1,321,281
—, —, lead sulfide for, 1,320,193
Aluminum chloride, mfr. of, leucite for, 1,320,193
—, —, leucite rocks for, 1,496,264
—, —, lignite for, 1,506,104
—, —, lime for, 1,222,960
—, —, limestone for, 1,222,960
—, —, liquid chlorine and aluminum for, 1,422,560
—, —, manganese salt for, 1,320,193
—, —, marl for, 1,323,228
—, —, mercury(ic) chloride for, 1,321,281
—, —, mercury(ous) chloride for, 1,321,281
—, —, metal salt for, 1,320,193
—, —, mica for, 1,320,193
—, —, molasses for, 1,217,471
—, —, muscovite for, 1,222,960; 1,320,193
—, —, nitric acid for, 1,323,228
—, —, nitrogen for, 1,507,709
—, —, oil shale for, 1,506,104
—, —, ores for, 1,392,043; 1,392,044; 1,392,045; 1,392,046
—, —, orthoclase for, 1,277,773; 1,320,193; 1,478,822
—, —, petroleum for, 1,217,471; 1,325,203; 1,508,451
—, —, petroleum coke for, 1,308,885
—, —, phosphorus trichloride for, 1,321,281
—, —, pitch for, 1,503,648; 1,508,451
—, —, plagioclase for, 1,302,852
—, —, plant ash for, 1,320,193
—, —, potassium bromide for, 1,474,479
—, —, potassium carbonate for, 1,277,773
—, —, potassium chloride for, 1,474,479; 1,478,822
—, —, potassium sulfide for, 1,320,193
—, —, process for, 1,144,304; 1,147,832; 1,165,065; 1,217,471; 1,218,588; 1,222,960; 1,238,604; 1,241,796; 1,268,015; 1,269,236; 1,270,226; 1,277,773; 1,308,885; 1,321,281; 1,323,228; 1,325,203; 1,354,818; 1,360,312; 1,375,116; 1,405,115; 1,405,734; 1,422,560; 1,422,568; 1,468,632; 1,474,479; 1,478,822; 1,489,021; 1,490,021; 1,496,264; 1,503,648; 1,506,104; 1,507,709; 1,508,451; 1,509,605; 1,512,419; 1,519,648; 1,519,880
—, —, producer gas for, 1,308,080; 1,366,626
—, —, sand for, 1,325,203
—, —, shale for, 1,506,104
—, —, silica crucible for, 1,165,065
—, —, silicates for, 1,277,773
—, —, silicon tetrachloride for, 1,238,604; 1,241,796; 1,321,281
—, —, sludge sulfonic acid for, 1,503,648; 1,508,451
—, —, sodium bromine for, 1,474,479
—, —, sodium chloride for, 1,222,960; 1,474,479; 1,478,822; 1,506,104; 1,507,709
—, —, sodium hydroxide for, 1,478,822
—, —, sodium nitrate for, 1,323,228
—, —, sodium sulfide for, 1,320,193
—, —, spodumene for, 1,478,822
—, —, sulfur for, 1,422,568
—, —, sulfur chloride for, 1,321,281; 1,489,021
—, —, sulfur chloride, (S_2Cl_2), for, 1,489,021
—, —, sulfur monochloride for, 1,320,193
—, —, sulfuric acid for, 1,222,960; 1,277,773; 1,490,021
—, —, tar for, 1,270,226

Aluminum chloride, mfr. of, tar asphalt for, 1,325,203
—, —, tar pitch for, 1,325,203
—, —, tin(ic) chloride for, 1,321,281
—, —, tin(ous) chloride for, 1,321,281
—, —, wax tailings for, 1,217,471
—, —, wood ash for, 1,320,193
—, —, zinc for, 1,241,796
—, —, zinc chloride for, 1,321,281
—, —, zinc sulfide for, 1,320,193
—, medicinal oil purified with, 1,277,329
—, mellitic acid made with, 1,134,956
—, metaldehyde made with, 1,467,733
—, methyl alcohol made with, 1,428,217
—, 2-methyl-anthracene made with, 1,515,325
—, mold, pattern released from with, 1,262,978
—, molded article made with, 1,383,864; 1,482,357
—, molybdenum chloride electrolyzed in sodium chloride and, 1,305,350
—, naphtha made with, 1,322,762; 1,322,878; 1,326,072; 1,326,073
—, naphtha polymerized to resins by, 1,360,665
—, naphthalene purified using, 1,441,417
—, nitrates made with, 1,485,706
—, nitrogen oxides made with, 1,485,706
—, oil, animal, hydrogenated with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, —, chlorination of using, 1,129,165
—, —, mineral, hydrogenated with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, —, mixing of and, apparatus for, 1,478,438
—, —, recovery from of, 1,322,762; 1,322,878
—, —, removal from of, 1,311,987
—, —, treatment of with, 1,277,328; 1,277,329
—, —, vegetable, hydrogenated, with, 1,472,882
—, —, —, non-sludging, made with, 1,472,882
—, oils cracked with, 1,424,574
—, oil residues, recovery from of, 1,405,734; 1,424,574
—, oil sludge, recovery from of, 1,332,018
—, —, —, apparatus for, 1,520,080
—, —, —, lead for, 1,520,080
—, —, —, process for, 1,520,080
—, oils treated with, 1,405,734
—, ornament made with, 1,482,357
—, paint made with, 1,292,907; 1,292,908
—, paper, cement for, made with, 1,482,357
—, —, printed, ink removed from using, 1,138,596; 1,138,597
—, paracoumarone made with, 1,360,665; 1,411,035; 1,416,062; 1,431,676; 1,464,851; 1,515,315
—, paraffin made with, 1,127,465
—, paraffin, chlorination of using, 1,129,165
—, paraffin purified with, 1,277,092; 1,277,329
—, paraindene made with, 1,360,665; 1,416,062; 1,464,851
—, parazenes mfr. with, 1,340,696
—, pattern removed from mould using, 1,262,973
—, perylene made with, 1,384,615
—, petroleum made with, 1,274,912
—, petroleum, chlorination of using, 1,129,165
—, —, non-sludging, made with, 1,472,882
—, —, removal from of, 1,311,987
—, —, separation from of, sulfuric acid, fuming, for, 1,127,465
—, petroleum cracked using, 1,476,219
Aluminum chloride, petroleum sludges recovery from of, 1,520,831
—, phenol aldehyde condensate made with, 1,146,384; 1,146,385; 1,150,642; 1,225,749; 1,225,750
—, phonograph record made with, 1,202,638
—, photography, color, process for, using, 1,315,464
—, pigment made with, 1,484,088
—, pigment, white, made with, 1,317,165
—, pipe bowl made with, 1,482,357
—, pipe stem made with, 1,482,357
—, potassium chloride made with, 1,496,264
—, precipitating hydrochloric acid for, 1,430,449
—, preparation of, 1,424,574
—, propane made with, 1,244,444
—, purification of, aluminum for, 1,269,236; 1,297,946; 1,300,205
—, —, apparatus for, 1,269,236
—, —, process for, 1,269,236
—, purifying, 1,329,315
—, —, electrolysis for, 1,382,808
—, record, phonograph, made with, 1,146,384; 1,146,385
—, recovery of, apparatus for, 1,520,831
—, —, process for, 1,520,831
—, recovery of from hydrocarbon residues treated with, 1,401,113
—, resins made with, 1,464,851
—, resin, artificial, made with, 1,360,665
—, —, chlorination of using, 1,129,165
—, separation from zirconium chloride, 1,418,528
—, shark skin shrinking solution contg., 1,304,256
—, shingle, asbestos contg., made with, 1,130,240
—, silicon tetrachloride separated from, 1,147,832; 1,300,205
—, silver sulfide ore, treatment of using, 1,441,063
—, soap made with, 1,430,099
—, sodium bicarbonate for removal from oil of, 1,311,967
—, sodium carbonate for removal from oil of, 1,311,967
—, sodium chloride, melting point of mixture of and, 1,474,479
—, solvent for, acetone as, 1,383,864
—, —, liquid chlorine as, 1,422,560
—, spent catalyst contg., aluminum chloride made with, 1,144,304
—, sponge, artificial, made with, 1,142,619
—, steel, rust-proofing, with, 1,320,734
—, stencil made with, 1,169,520
—, stone, artificial, made with, 1,130,240
—, subliming, 1,426,081
—, sugar, beet, decolorizing of, using, 1,511,472
—, —, —, purification of, using, 1,511,472
—, —, cane, decolorizing of, using, 1,511,472
—, —, —, purification of, using, 1,511,472
—, sugar solutions, decolorizing of, using, 1,511,472
—, —, purification of, using, 1,511,472
—, sulfuric acid for removal from oil of, 1,311,987
—, sulfur xylene condensed with, 1,426,430
—, talc insulators mfr. with, 1,453,726

Aluminum chloride, tanning made with, 1,415,671; 1,427,221
—, tanning process using, 1,427,221
—, tetramethylenediamine combined with, 1,444,865
—, tile made with, 1,130,240; 1,383,864
—, titanium chloride, separation of from, 1,147,832
—, toluene made with, 1,216,174; 1,244,444; 1,274,913; 1,324,143
—, toluene prepared from xylene by, 1,334,033
—, toluene sulfur condensed by, 1,427,182
—, toluyl-benzoic acid made with, 1,489,744; 1,515,325
—, tribenzyltrimethylenetriamine combined with, 1,444,865
—, 1.2.3-trichlor-propane made with, 1,362,355
—, triethyltrimethylenetriamine combined with, 1,444,865
—, tung oil, solidified, made with, 1,383,864
—, turpentine substitute made with, 1,127,465
—, urea-formaldehyde condensate made with, 1,482,357
—, varnish made with, 1,292,907; 1,292,908; 1,482,357
—, volatilization of, 1,401,113; 1,405,734
—, vulcanizing accelerators deodorized by, 1,444,865
—, vulcanizing accelerator of acetaldehyde-aniline condensate and, 1,444,865
—, vulcanizing accelerator of amine-formaldehyde condensate and, 1,444,865
—, vulcanizing accelerator of aniline-acetaldehyde condensate and, 1,444,865
—, vulcanizing accelerator of dipiperidylmethylenediamine and, 1,444,865
—, vulcanizing accelerator of formaldehyde-amine condensate and, 1,444,865
—, vulcanizing accelerator of tetraethylmethylenediamine and, 1,444,865
—, vulcanizing accelerator of tribenzyltrimethylenetriamine and, 1,444,865
—, vulcanizing accelerator of triethyltrimethylenetriamine and, 1,444,865
—, waste, utilization of, 1,378,219
—, water for removal from oil of, 1,311,987
—, wax, chlorination of using, 1,129,165
—, xylene changed into toluene by, 1,337,317
—, "xylium," composition of and, 1,175,422; 1,175,423
—, zeolite, artificial, made with, 1,263,707
—, zinc chloride made with, 1,369,729; 1,378,219
—, zinc chloride electrolyzed to produce chlorine for preparation of, 1,343,662
—, (basic), aluminum chloride crystals washed with, 1,430,449
—, —, hair mineralized by, 1,394,655
—, —, preparation of, 1,430,449
—, —, wool mineralized by, 1,394,655
Aluminum chloride-hydrocarbon compound, benzine made with, 1,325,299
—, catalyst contg., benzine made with, 1,325,299
—, petroleum cracked with, 1,325,299
Aluminum chloride material, hydrocarbon treated with, 1,512,420
—, mfr. of, alumina for, 1,512,420
—, —, apparatus for, 1,512,420
Aluminum chloride material, mfr. of, carbon for, 1,512,420
—, —, chlorine for, 1,512,420
—, —, hydrocarbon for, 1,512,420
—, —, process for, 1,512,420
Aluminum chloride residue, aluminum made with, 1,206,874
Aluminum chromate, alkali perborate made with, 1,253,061
—, sodium perborate made with, 1,253,061
Aluminum cocoanut oil soap, metal coating composition contg., 1,472,239
—, rust prevention using, 1,472,239
Aluminum compounds, alkali carbonate impurity in, extraction of, 1,308,429
—, alkali hydroxide impurity in, extraction of, 1,308,429
—, alkali oxalate made with, 1,281,118
—, alkali oxide impurity in, extraction of, 1,308,429
—, alkali sulfate impurity in, extraction of, 1,308,429
—, aluminum from, process for, 1,308,429
—, aluminum carbide (Al_2C_3) made with, 1,129,506
—, aluminum carbonitride ($Al_2C_3N_6$) made with, 1,129,506
—, aluminum fluoride made with, 1,315,460
—, aluminum nitride made with, 1,415,036
—, aluminum oxide from, process for, 1,308,429
—, aluminum sulfate from, process for, 1,308,429
—, ammonia made with, 1,129,506; 1,172,863
—, ammonium nitrite made with, 1,172,863
—, arsenic compound, separation of from, process for, 1,503,229
—, asbestos, water-proofing of with, 1,280,954
—, blasting fuses contg., 1,424,487
—, calcium carbonate impurity in, extraction of, 1,308,429
—, calcium hydroxide impurity in, extraction of, 1,308,429
—, calcium oxide impurity in, extraction of, 1,308,429
—, calcium sulfate impurity in, extraction of, 1,308,429
—, carbon, catalyst, made with, 1,520,437
—, catalysts, acetylene oxidation, 1,355,299
—, —, carbon made with, 1,520,437
—, —, ethyl lactate made with, 1,160,595
—, —, hydrocyanic acid made with, 1,492,193; 1,492,194
—, catalyst carriers, 1,428,885
—, catalyst promoter, 1,271,013
—, cerium, production of effected by, 1,273,223
—, charcoal, activated, made with, 1,520,437
—, condiment contg., 1,513,298
—, copper, removal from of, 1,232,080
—, copper compound, separation of from, process for, 1,503,229
—, copper sulfate, removal from of, 1,232,080
—, —, —, air for, 1,503,229
—, —, —, alkali nitrate for, 1,503,229
—, —, —, apparatus for, 1,503,229
—, —, —, formic acid for, 1,503,229
—, —, —, hydrochloric acid for, 1,503,229
—, —, —, nitrate for, 1,503,229
—, —, —, nitric acid for, 1,503,229

Aluminum compounds, copper sulfate, removal from of, nitrogen dioxide for, 1,503,229
—, —, —, nitrogen tetroxide for, 1,503,229
—, —, —, oxygen for, 1,503,229
—, —, —, ozone for, 1,503,229
—, —, —, process for, 1,503,229
—, —, —, sulfur dioxide for, 1,503,229
—, —, —, sulfuric acid for, 1,503,229
—, electrode, welding, made with, 1,363,636
—, enamel, opaque, made with, 1,150,772; 1,239,112
—, —, white, made with, 1,150,772
—, extraction of, manganese ore for, 1,291,867
—, —, redwood tannin for, 1,308,429
—, —, sulfur dioxide and redwood tannin for, 1,308,429
—, —, sulfuric acid and redwood tannin for, 1,308,429
—, —, sulfurous acid and redwood tannin for, 1,308,429
—, fertilizer made with, 1,283,677
—, fiber, animal, waterproofing of with, 1,280,954
—, —, mineral, waterproofing of with, 1,280,954
—, —, vegetable, waterproofing of with, 1,280,954
—, furnace lining protected with, 1,308,481
—, glass made with, 1,192,048
—, glass, translucent, made with, 1,192,048
—, glue, vegetable, made with, 1,490,309
—, heat-producing contg., 1,309,209
—, hydrogen-dioxide, stabilization of with, 1,275,765
—, iron made with, 1,227,127
—, iron carbonate impurity in, extraction of, 1,308,429
—, iron compound, separation of from, process for, 1,503,229
—, iron hydroxide impurity in, extraction of, 1,308,429
—, iron oxide impurity in, extraction of, 1,308,429
—, iron sulfate impurity in, extraction of, 1,308,429
—, kelp product contg., 1,513,298
—, lubricant made with, 1,200,617
—, magnesium carbonate impurity in, extraction of, 1,308,429
—, magnesium hydroxide impurity in, extraction of, 1,308,429
—, magnesium oxide impurity in, extraction of, 1,308,429
—, magnesium sulfate impurity in, extraction of, 1,308,429
—, manganese carbonate impurity in, extraction of, 1,308,429
—, manganese hydroxide impurity in, extraction of, 1,308,429
—, manganese oxide impurity in, extraction of, 1,308,429
—, manganese sulfate impurity in, extraction of, 1,308,429
—, mfr. of, alkali earth oxide for, 1,233,273
—, —, alkali oxide for, 1,233,273
—, —, aluminum for, 1,229,611
—, —, aluminum alloys for, 1,229,611
—, —, aluminum carbide for, 1,229,611
—, —, aluminum carbonate for, 1,229,611
Aluminum compounds, mfr. of, aluminum nitride for, 1,229,611
—, —, aluminum ore for, 1,249,125
—, —, aluminum oxide for, 1,229,611
—, —, aluminum oxide ore for, 1,249,125
—, —, aluminum silicates for, 1,249,125
—, —, aluminum silicate ore for, 1,249,125
—, —, aluminum skimmings for, 1,229,611
—, —, aluminum sulfate for, 1,249,125
—, —, aluminum sulfide ore for, 1,249,125
—, —, alunite for, 1,249,125
—, —, apparatus for, 1,249,125
—, —, asphalt for, 1,229,611
—, —, bauxite for, 1,249,125
—, —, calcium cyanamide for, 1,463,508
—, —, calcium hydroxide for, 1,233,273
—, —, calcium oxide for, 1,233,273
—, —, carbon dioxide for, 1,233,273
—, —, cellulose for, 1,249,125
—, —, chloride for, 1,463,508
—, —, copper for, 1,229,611
—, —, feldspar for, 1,233,273; 1,463,508
—, —, hydrocarbon for, 1,229,611
—, —, iron for 1,229,611
—, —, iron ore, Cuban, for, 1,237,765
—, —, laterite for, 1,249,125
—, —, leucite for, 1,233,273
—, —, lime for, 1,229,611
—, —, nitrate for, 1,463,508
—, —, petroleum for, 1,229,611
—, —, potassium hydroxide for, 1,233,273; 1,237,765
—, —, process for, 1,229,611; 1,233,273; 1,237,765; 1,249,028; 1,249,125; 1,279,108; 1,463,508
—, —, psilomelane for, 1,279,108
—, —, pyrite for, 1,237,765
—, —, pyrophyllite for, 1,279,108
—, —, redwood for, 1,249,125
—, —, resin oil for, 1,229,611
—, —, serpentine for, 1,279,108
—, —, sodium carbonate for, 1,237,765
—, —, sodium hydroxide for, 1,237,765
—, —, sodium sulfide for, 1,237,765
—, —, silicates for, 1,233,273
—, —, sulfate for, 1,463,508
—, —, sulfuric acid for, 1,249,125; 1,279,108
—, —, sulfurous acid for, 1,249,125
—, —, tannic acid for, 1,249,125
—, —, tannin for, 1,249,125
—, —, tar for, 1,229,611
—, —, wad for, 1,279,108
—, —, water for, 1,233,273
—, misch-metal, production of effected by, 1,273,223
—, nickel compound, separation of from, process for, 1,503,229
—, niter cake contg., 1,251,522
—, nitrogen dioxide made with, 1,172,863
—, nitrous acid made with, 1,172,863
—, paper de-inked with, 1,421,195
—, perborate, stabilization of with, 1,275,765
—, phosphate rock, removal from of, apparatus for, 1,129,407
—, —, —, hydrochloric acid for, 1,129,407
—, —, —, process for, 1,129,407
—, —, —, sulfuric acid for, 1,129,407

Aluminum compounds, phosphorus, vanadium solutions removal from of, using, 1,421,191
—, phosphorus removed from metals by, 1,437,191
—, potassium carbide (K_2C) made with, 1,129,506
—, potassium carbonate made with, 1,129,506
—, potassium carbonate impurity in, extraction of, 1,308,429
—, potassium carbonitride, (K_2CN_2), made with, 1,129,506
—, potassium hydroxide impurity in, extraction of, 1,308,429
—, potassium oxide impurity in, extraction of, 1,308,429
—, potassium sulfate impurity in, extraction of, 1,308,429
—, precipitating, electrolysis for, 1,382,808
—, recovery from paper stock, 1,410,739
—, silicon carbide, (SiC), made with, 1,129,506
—, silicon carbonitride, ($Si_3C_6N_{12}$), made with, 1,129,506
—, siloxicon, (Si_2C_2O), made with, 1,129,506
—, sodium carbonate impurity in, extraction of, 1,308,429
—, sodium hydroxide impurity in, extraction of, 1,308,429
—, sodium oxalate made with, 1,281,118
—, sodium oxide impurity in, extraction of, 1,309,429
—, sodium perborate, stabilization of with, 1,275,765
—, sodium sulfate impurity in, extraction of, 1,308,429
—, starch paste contg., 1,357,310
—, steel, treatment of, using, 1,489,118
—, sulfur dioxide and redwood tannin for extraction of, 1,308,429
—, sulfuric acid and redwood tannin for extraction of, 1,308,429
—, sulfurous acid and redwood tannin for extraction of, 1,308,429
—, tanning process using, 1,346,385
—, therapeutic product contg., 1,513,298
—, titanium carbonate impurity in, extraction of, 1,308,429
—, titanium compound made with, 1,504,669; 1,504,670
—, titanium hydroxide made with, 1,504,669; 1,504,670
—, titanium hydroxide impurity in, extraction of, 1,308,429
—, titanium oxide made with, 1,504,669; 1,504,670
—, titanium oxide impurity in, extraction of, 1,308,429
—, titanium sulfate, basic, made with, 1,504,669; 1,504,670
—, titanium sulfate impurity in, extraction of, 1,308,429
—, titanyl sulfate made with, 1,504,669; 1,504,670
—, vanadium solutions, phosphorus, removal of from, using, 1,421,191
—, water purified using, 1,513,566
—, zinc compound, separation of from, process for, 1,503,229
Aluminum concentrates, see Aluminum oxide
Aluminum condenser, for attachment to tea kettles, 1,199,147
Aluminum copper alloy, hardness increased of, process for, 1,326,775
Aluminum copper sulfate, copper made with, 1,162,044
—, copper sulfate made with, 1,162,044
—, mfr. of, alum for, 1,162,044
—, —, aluminum sulfate for, 1,162,044
—, —, copper ore for, 1,162,044
—, —, copper oxide for, 1,162,044
—, —, copper oxide ore for, 1,162,044
—, —, copper sulfide ore for, 1,162,044
—, —, feldspar for, 1,162,044
—, —, process for, 1,162,044
—, (basic), copper made with, 1,162,044
—, —, copper sulfate made with, 1,162,044
Aluminum cyanide, ($Al_2(CN)_6$), mfr. of, aluminum carbonitride, ($Al_2C_3N_6$), for, 1,143,132
—, —, —, aluminum oxide for, 1,143,132
—, —, —, apparatus for, 1,143,132
—, —, —, carbon for, 1,143,132
—, —, —, nitrogen for, 1,143,132
—, —, —, process for, 1,143,132
Aluminum diethylaminoethylate, catalyst in preparation of diethylaminoethyl-*p*-aminobenzoate, 1,396,913
Aluminum dithiocarbamate (substituted), vulcanizing accelerator, 1,386,153
Aluminum dross, aluminum chloride made with, 1,354,818
—, ammonia made with, 1,156,606
—, ammonium salts made with, 1,156,606
—, copper made with, 1,156,606
—, copper salts made with, 1,156,606
—, copper sulfate made with, 1,156,606
—, sodium aluminate made with, 1,156,606
—, zinc salts made with, 1,156,606
—, zinc sulfate made with, 1,156,606
—, *see also Aluminum skimmings*
Aluminum dust, aluminum made from, 1,273,220
—, aluminum sulfate made with, 1,176,292; 1,262,063
—, balloon, varnishing of using, 1,281,374
—, belt dressing made with, 1,242,424
—, explosive made with, 1,360,397; 1,360,398
—, heat producing compound contg., 1,126,055
—, iron-rust-proofing of with, 1,280,268
—, refractory made with, 1,197,626; 1,198,033
—, sign, surfacing of using, 1,304,749
—, silver precipitated by, 1,403,463
Aluminum electrode, aluminum, colloidal, made with, 1,491,250
—, battery, primary, made with, 1,190,880
—, —, storage, made with, 1,173,651; 1,190,880; 1,499,907
—, cadmium made with, 1,426,703
—, carbon dioxide made with, 1,132,058
—, cereals, aging of, using, 1,132,058
—, —, bleaching of, using, 1,132,058
—, cereal products, aging of, using, 1,132,058
—, —, bleaching of, using, 1,132,058
—, circuit interrupter, electrolytic, made with, 1,341,631
—, condenser contg., 1,270,784
—, condenser, electrolytic, made with, 1,141,402; 1,250,141; 1,250,146; 1,250,286; 1,285,305;

1,341,631; 1,348,206; 1,348,207; 1,382,899; 1,412,513; 1,412,514; 1,473,883; 1,499,414
Aluminum electrode, dyeing process using, 1,333,700
—, electrolytic cell contg., 1,270,784
—, electrolytic cell, film forming, made with, 1,499,414
—, fabric, waterproofing of using, 1,208,400; 1,215,077
—, flour, aging of, using, 1,132,058
—, —, bleaching of, using, 1,132,058
—, hydrogen made with, 1,132,058
—, lamp, electric, made with, 1,188,194
—, lightning arrester made with, 1,179,380; 1,238,660; 1,270,784; 1,273,706
—, lightning arrester, electrolytic, made with, 1,150,590; 1,177,335; 1,208,484; 1,250,141; 1,250,146; 1,250,286; 1,348,206; 1,348,207; 1,358,180; 1,382,899; 1,412,513; 1,412,514; 1,499,414
—, liquid, treatment of using, 1,244,012
—, luminescent tube, neon, made with, 1,125,476
—, mfr. of, process for, 1,330,581
—, nitric acid made with, 1,517,727
—, nitrogen compounds made with, 1,132,058
—, nitrogen oxides made with, 1,266,717; 1,517,727
—, oil, water, boiler feed, removal from of, using, 1,243,191
—, oxygen made with, 1,132,058
—, ozone generator made with, 1,436,251; Re-15,880
—, perborate made with, 1,395,684
—, rectifier, electrolytic, made with, 1,141,402; 1,156,666; 1,165,983; 1,171,969; 1,206,061; 1,250,141; 1,285,305; 1,339,907; 1,348,206; 1,348,207; 1,382,899; 1,412,513; 1,412,514; 1,499,414; 1,499,907
—, textile, waterproofing of, using, 1,215,077; 1,228,987; 1,228,988
—, sewage, softening of, using, 1,222,637
—, —, treatment of, using, 1,222,637
—, sugar solution, treatment of using, 1,244,012
—, thread, waterproofing of, using, 1,215,077
—, transformer, electrolytic, made with, 1,179,495
—, water, boiler feed, oil, removal of from, using, 1,243,191
—, —, purification of, using, 1,217,643
—, —, softening of, using, 1,222,637
—, —, treatment of, using, 1,222,637
—, waterproofing using, 1,215,077; 1,228,987; 1,228,988
—, wool, waterproofing of using, 1,208,400
Aluminum filings, coated, fireworks, made with, 1,204,709
—, —, mfr. of, acetone for, 1,204,709
—, —, —, alcohol for, 1,204,709
—, —, —, benzene for, 1,204,709
—, —, —, celluloid for, 1,204,709
—, —, —, cellulose nitrate for, 1,204,709
—, —, —, copal for, 1,204,709
—, —, —, ether for, 1,204,709
—, —, —, gums for, 1,204,709
—, —, —, process for, 1,204,709
—, —, —, shellac for, 1,204,709
—, —, —, varnish for, 1,204,709
—, —, sparklers made with, 1,204,709
Aluminum flake, rubber composition contg., 1,263,297
—, *see also Alumina*
Aluminum fluophosphate, see Amblygonite
Aluminum fluoride, abrasive made with, 1,263,709
—, aluminum made with, 1,132,737; 1,160,431; 1,217,432
—, aluminum hydroxide made with, 1,215,351; 1,300,110
—, aluminum oxide made with, 1,315,460
—, aluminum producing electrolyte contg., 1,464,625
—, ammonia made with, 1,198,965
—, ammonium chloride made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, ammonium nitrate made with, 1,464,991
—, calcining of, apparatus for, 1,315,460
—, —, process for, 1,315,460
—, calcium fluoride made with, 1,215,351
—, cement, dental, made with, 1,172,723
—, cryolite, artificial, made with, 1,464,990; 1,464,991; 1,511,560; 1,511,561
—, —, synthetic, made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, electrode, arc lamp, made with, 1,189,265
—, enamel made with, 1,518,872
—, formation of, 1,380,458; 1,464,625
—, glass, opalescent, made with, 1,518,872
—, —, opaque, made with, 1,518,872
—, hydrochloric acid made with, 1,293,703; 1,315,460; 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, mfr. of, aluminum for, 1,518,872
—, —, aluminum compound for, 1,315,460
—, —, aluminum fluosilicate for, 1,518,872
—, —, aluminum oxide for, 1,293,703
—, —, aluminum silicates for, 1,160,431; 1,237,488; 1,480,928
—, —, aluminum sulfate for, 1,160,431; 1,518,872
—, —, alunite for, 1,217,432
—, —, ammonium fluoride for, 1,300,110
—, —, barium carbonate for, 1,518,872
—, —, barium chloride for, 1,518,872
—, —, barium fluosilicate for, 1,518,872
—, —, barium oxide for, 1,518,872
—, —, bauxite for, 1,237,488; 1,315,460
—, —, calcium carbonate for, 1,518,872
—, —, calcium chloride for, 1,518,872
—, —, calcium fluoride for, 1,217,432; 1,480,928
—, —, calcium fluosilicate for, 1,518,872
—, —, calcium oxide for, 1,518,872
—, —, clay for, 1,160,431; 1,300,110; 1,315,460
—, —, clay, white, for, 1,480,928
—, —, feldspar for, 1,237,488
—, —, fluorine compound for, 1,217,432
—, —, fluorspar for, 1,217,432; 1,480,928
—, —, fluosilicate for, 1,293,703
—, —, fluosilicic acid for, 1,518,872
—, —, hydrofluoric acid for, 1,215,351; 1,237,488; 1,294,546; 1,315,460; 1,480,928
—, —, hydrofluosilicic acid for, 1,293,703; 1,480,928
—, —, kaolin for, 1,160,431; 1,215,351; 1,237,488; 1,300,110
—, —, magnesium carbonate for, 1,518,872
—, —, magnesium chloride for, 1,518,872
—, —, magnesium fluosilicate for, 1,518,872

Aluminum fluoride, mfr. of, magnesium oxide for, 1,518,872
—, —, magnesium sulfate for, 1,518,872
—, —, orthoclase for, 1,237,488
—, —, phosphate rock for, 1,518,872
—, —, process for, 1,160,431; 1,215,351; 1,217,432; 1,237,488; 1,315,460; 1,391,172; 1,403,183; 1,480,928; 1,518,872
—, —, sodium bisulfate for, 1,160,431
—, —, sodium chloride for, 1,518,872
—, —, sodium fluoride for, 1,160,431; 1,217,432; 1,480,928
—, —, sodium fluosilicate for, 1,518,872
—, —, sodium sulfate for, 1,160,431
—, —, strontium carbonate for, 1,518,872
—, —, strontium chloride for, 1,518,872
—, —, strontium fluosilicate for, 1,518,872
—, —, strontium oxide for, 1,518,872
—, —, sulfuric acid for, 1,160,431; 1,480,928; 1,518,872
—, moth repellent made with, 1,494,085; 1,515,182
—, nitrogen, fixation of, using, 1,198,965
—, paint pigment contg., 1,460,699
—, paper, coating for, contg., 1,480,928
—, —, sizing for, contg., 1,480,928
—, sodium fluoride made with, 1,215,351
—, soldering flux contg., 1,283,909
—, welding compound contg., 1,283,909
—, wool, moth repellent, made with, 1,494,085
—, *see also Chiolite; Cryolite; Fluellite*
Aluminum fluosilicate, aluminum fluoride made with, 1,518,872
—, aluminum hydroxide from, 1,426,890; 1,426,891
—, catalyst, dehydrogenation, made with, 1,216,933
—, —, hydrogenation, made with, 1,216,933
—, dehydrogenation, catalyst for, made with, 1,216,933
—, formation of, 1,357,025
—, glower made with, 1,135,663
—, hydrogenation, catalyst for, made with, 1,216,933
—, lamp, electric, made with, 1,135,663
—, mfr. of, aluminum sulfate for, 1,357,025; 1,518,872
—, —, fluosilicic acid for, 1,518,872
—, —, phosphate rock for, 1,518,872
—, —, potassium fluosilicate for, 1,357,025
—, —, process for, 1,357,025; 1,518,872
—, —, sulfuric acid for, 1,518,872
—, potassium compounds extracted from silicates by, 1,355,381
—, preparation of, 1,355,381
—, silicon made with, 1,518,872
—, silicon alloy made with, 1,518,872
—, *see also Aluminum silicofluoride; Topaz*
Aluminum foil, condenser, electric, made with, 1,200,063; 1,248,829
—, container, food, made with, 1,399,270; 1,466,380
—, fireproofing, aircraft, with, 1,309,453
—, insulation, electric, made with, 1,161,989
—, —, —, fireproof, made with, 1,161,989
—, mfr. of, alcohol for, 1,178,863; 1,225,044
—, —, benzine for, 1,178,863; 1,225,044
Aluminum foil, mfr. of, ether for, 1,178,863; 1,225,044
—, —, lubricating oil for, 1,178,863
—, —, motor oil for, 1,178,863
—, —, oil for, 1,178,863; 1,225,044
—, —, petroleum for, 1,178,863; 1,225,044
—, —, process for, 1,178,863; 1,225,044
—, —, soap for, 1,225,044
—, —, steam for, 1,178,863
—, —, turpentine for, 1,178,863
—, motion picture screen made using, 1,506,729
—, packing made with, 1,513,548
—, paraffin wax coated, mfr. of, 1,466,380
—, *see also Metal foil*
Aluminum formaldehyde-sulfite, see Formaldehyde-sulfurous acid, aluminum salt of
Aluminum formate, mfr. of, alum for, 1,493,945
—, —, aluminum sulfate for, 1,493,945
—, —, process for, 1,493,945
—, —, sodium formate for, 1,493,945
Aluminum garnet, see Garnet, aluminum
Aluminum grid, battery, storage, electrode for made using, 1,144,311
Aluminum group metal oxide, refractory compound contg., 1,360,355
Aluminum group salt, zeolite, artificial, made with, 1,499,492
Aluminum halide, benzine made with, 1,325,299
—, catalyst contg., benzine made with, 1,325,299
—, ethyl acetate made with, 1,459,852
—, hydrocarbon compound, benzine made with, 1,325,299
—, lamp, vapor, electric, made with, 1,176,630; 1,176,661
—, perylene made with, 1,384,615
Aluminum halide-hydrocarbon compound, catalyst contg., benzine made with, 1,325,299
—, petroleum cracked with, 1,325,299
Aluminum hydrate, see Aluminum hydroxide
Aluminum hydrosilicate, bleaching-earth contg., 1,455,995
—, treating, 1,455,995
Aluminum hydroxide, adhesive of, 1,378,106
—, airplane dope made with, 1,426,521
—, alcohol, solidified, made with, 1,329,583
—, alkali earth carbonate from mine water with, 1,254,009
—, aluminum made with, 1,512,462
—, aluminum alloy made with, 1,512,462
—, aluminum coated with, 1,451,755
—, aluminum insulated by, process for, 1,451,755
—, aluminum oxide made with, 1,197,107; 1,314,709; 1,314,710; 1,332,113; 1,332,115
—, aluminum protected by, 1,451,755
—, aluminum salicylate from salicylic acid and, 1,447,501
—, aluminum sulfate made with, 1,483,627
—, aluminum sulfite from, 1,325,873
—, ammonium chloride made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, ammonium nitrate, concentration of, using, 1,126,471
—, ammonium nitrate and, mfr. of, 1,464,984
—, ammonium salt, concentration of, using, 1,126,471

Aluminum hydroxide, arsenic compounds, marine animal oils, removal from of, using, 1,247,516
—, binder with cellulose sulfite liquors and, 1,290,118
—, brick, fire-, made with, 1,244,275
—, building material, waterproofing of, using, 1,177,156
—, calcium made with, 1,512,462
—, calcium alloy made with, 1,512,462
—, calcium hypochlorite from mine water and, 1,254,009
—, carbon dioxide, precipitation with of, 1,325,882
—, catalyst, acetylene products mfr., 1,421,743
—, —, ethylacetate made with, 1,459,852
—, —, hydrogenation, made with, 1,152,591; 1,172,062
—, —, lubricating oil mfr., 1,350,814
—, —, mfr. of, aluminum ammonium sulfate for, 1,512,897
—, —, —, aluminum sulfate for, 1,512,897
—, —, —, ammonium hydroxide for, 1,512,897
—, —, —, process for, 1,512,897
—, —, nickel made with, 1,139,592; 1,172,062
—, catalyst poisons, marine animal oils, removal from of using, 1,247,516
—, catalyst promoter, 1,271,013
—, —, ammonia made with, 1,148,570; 1,152,930
—, cement made with, 1,507,379
—, cement, hydraulic, waterproofing of using, 1,134,573
—, —, waterproofing of using, 1,134,573
—, ceramic insulating material contg., 1,409,953
—, chlorine compounds, marine animal oils, removal from of, using, 1,247,516
—, chlorine solution made with, 1,298,553; 1,298,554
—, chromium salts precipitated by, 1,341,901
—, coating composition, visibility reducing, made with, 1,426,521
—, cod oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, colloidal, liquid, purification of using, 1,170,868
—, —, oil, mineral, purification of using, 1,170,868
—, —, —, vegetable, purification of using, 1,170,868
—, —, sugar solutions, purification of using, 1,170,868
—, —, water, purification of using, 1,170,868
—, colloidal properties of, destroying, 1,333,020
—, colloidal solutions of, mfr. of, aluminum for, 1,514,737
—, —, —, apparatus for, 1,514,737
—, —, —, boneblack for, 1,514,737
—, —, —, carbon for, 1,514,737
—, —, —, process for, 1,514,737
—, —, preparing, 1,376,153
—, colloidal solutions prepared with, 1,460,012
—, color lake made with, 1,157,525; 1,358,007
—, color lake of, mimeograph ink contg., 1,381,648
—, color lake prepared with, 1,434,619
—, concrete, water-proofing of, using, 1,134,573
Aluminum hydroxide, corn oil, hydrogenation of, using, 1,247,516
—, cotton seed oil, hydrogenation of, using, 1,247,516
—, cryolite, artificial, made with, 1,511,561
—, —, synthetic, made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, cyanide derivatives, marine animal oils, removal from of using, 1,247,516
—, decolorizing by carbon and, 1,447,452
—, dental cement made with, 1,408,960; 1,507,379
—, depilatory contg., 1,379,855
—, detergent made with, 1,395,902
—, dye, sulfur, made with, 1,316,742
—, dye absorbed by mordant of, 1,337,673
—, dye precipitated by, 1,303,426
—, dyestuff, printing paste for contg., 1,126,387
—, dyestuff recovered using, 1,303,426
—, enamel, opaque, made with, 1,129,300; 1,314,831
—, —, white, made with, 1,129,300
—, ethyl ether purified using, 1,189,602
—, fabric, water-proofing of using, 1,208,400
—, factory, effluent, treatment of, using, 1,505,104
—, fertilizer made with, 1,185,731; 1,289,789
—, fire extinguisher contg., 1,421,436
—, fire-preventing form contg., 1,441,728
—, fish oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, formaldehyde-sulfurous acid, aluminum salt of, made with, 1,149,712
—, formation of, 1,426,890; 1,426,891
—, —, alkali earth sulfide for, 1,321,013
—, —, aluminum nitrate for, 1,321,013
—, —, aluminum sulfite for, 1,325,873
—, —, apparatus for, 1,321,013
—, —, carbon dioxide for, 1,324,328
—, —, chromium nitrate for, 1,321,013
—, —, electrolytic, 1,382,808
—, —, magnesium nitrate for, 1,321,013
—, —, potassium aluminate for, 1,324,328
—, —, process for, 1,261,948; 1,321,013
—, —, silicates for, 1,410,642
—, —, sodium aluminate for, 1,324,328
—, —, sulfate for, 1,385,854
—, glass made with, 1,214,202; 1,287,005
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, —, semi-translucent, made with, 1,287,005
—, glass colored white by, 1,327,569
—, glaze, opaque, made with, 1,314,831
—, glue, vegetable, made with, 1,490,309
—, grease, recovery of from wool scouring liquor with, 1,325,873
—, heater, electric, made with, 1,507,379
—, hydrochloric acid made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, hydrochloric acid neutralized by, 1,298,553; 1,298,554
—, hydrogenation, catalyst for, made with, 1,152,591; 1,172,062
—, hydrogenation process using, 1,247,516
—, hydrogen dioxide, stabilization of with, 1,275,765

Aluminum hydroxide, hypochlorous acid, effect of on, 1,298,553; 1,298,554
—, ink made with, 1,369,252
—, ink, copying, mfr. of, with, 1,449,943
—, —, mimeograph, made with, 1,381,648
—, —, printing, made with, 1,157,525; 1,234,264; 1,276,861
—, —, stencil, made with, 1,515,123
—, insecticide made with, 1,376,153
—, insecticide contg. colloidal solution of, 1,376,153
—, insulation, heat, made with, 1,230,085; 1,235,258
—, —, sound, made with, 1,235,258
—, iodine compounds, marine animal oils, removal from of using, 1,247,516
—, iron removed from aluminum solutions with, 1,421,804
—, iron salts precipitated by, 1,341,901
—, lactose made using, 1,500,770
—, lake made with, 1,126,591; 1,126,664; 1,232,552; 1,358,007; 1,369,252; 1,434,619; 1,445,331
—, lakes prepared from, airplane dope contg., 1,426,521
—, leather, artificial, dyeing of using, 1,186,052
—, leather-board, waterproof, made with, 1,142,953
—, limestone from mine water with, 1,254,009
—, linoleum made with, 1,235,258
—, liquid, treatment of using, 1,244,012
—, lubricant made with, 1,200,617; 1,395,902
—, magnesite from mine water with, 1,254,009
—, mfr. of, air for, 1,251,295; 1,251,296
—, —, alkali aluminate for, 1,251,295; 1,251,296; 1,315,045
—, —, alkali bicarbonate for, 1,324,318
—, —, alkali carbonate for, 1,324,318
—, —, alkali hydroxide for, 1,324,318; 1,483,627
—, —, alumina for, 1,493,320
—, —, aluminum for, 1,161,750
—, —, aluminum ammonium sulfate for, 1,493,320; 1,512,897
—, —, aluminum carbonitride, ($Al_2C_3N_6$) for, 1,129,509
—, —, aluminum chloride for, 1,323,228
—, —, aluminum fluoride for, 1,215,351; 1,300,110
—, —, aluminum oleate for, 1,197,107
—, —, aluminum sulfate for, 1,512,897
—, —, aluminum silicate for, 1,277,503; 1,324,318
—, —, ammonia for, 1,300,110; 1,507,993
—, —, ammonium aluminum sulfate for, 1,280,636
—, —, ammonium bisulfate for, 1,493,320
—, —, ammonium fluoride for, 1,300,110
—, —, ammonium hydroxide for, 1,274,145; 1,280,636; 1,493,320; 1,507,993; 1,512,897
—, —, ammonium potassium sulfate for, 1,493,320
—, —, ammonium sodium sulfate for, 1,493,320
—, —, ammonium sulfate for, 1,280,636; 1,493,320
—, —, alunite for, 1,239,768; 1,274,145
—, —, alunogen for, 1,280,636
—, —, apparatus for, 1,216,371; 1,251,296; 1,280,636; 1,483,627
Aluminum hydroxide, mfr. of, bauxite for, 1,137,860; 1,216,371; 1,300,110; 1,493,320
—, —, Bayer process for, 1,137,860
—, —, calcium carbonate for, 1,277,503; 1,507,993
—, —, calcium hydroxide for, 1,215,351; 1,323,228; 1,324,318
—, —, carbon for, 1,277,503
—, —, carbon dioxide for, 1,197,107; 1,215,351; 1,232,553; 1,277,503; 1,324,318; 1,483,627
—, —, chamotte for, 1,493,320
—, —, chlorine for, 1,215,351; 1,216,371; 1,323,228
—, —, clay for, 1,300,110
—, —, electrolytic process for, 1,161,750; 1,216,371
—, —, electro-osmotic process for, 1,216,371
—, —, feldspar for, 1,323,553; 1,324,318
—, —, feldspar, potash, for, 1,483,627
—, —, glauconite for, 1,323,228
—, —, greensand for, 1,323,228
—, —, halotrichite for, 1,280,636
—, —, hydrochloric acid for, 1,232,228
—, —, hydrofluoric acid for, 1,215,351
—, —, hydrogen dioxide for, 1,215,351
—, —, kaolin for, 1,215,351; 1,300,110; 1,507,993
—, —, leucite for, 1,324,318; 1,507,993
—, —, labradorite for, 1,507,993
—, —, lime for, 1,232,553; 1,507,993
—, —, lye for, 1,137,860
—, —, marl for, 1,323,228
—, —, niter cake for, 1,232,553
—, —, nitric acid for, 1,274,145; 1,323,228; 1,507,993
—, —, potassium aluminum silicate for, 1,324,318
—, —, potassium carbonate for, 1,324,318; 1,507,993
—, —, potassium hydroxide for, 1,274,145; 1,324,318; 1,483,627
—, —, predetermined degree of dispersion of for, 1,512,897
—, —, process for, 1,137,860; 1,161,750; 1,197,107; 1,215,351; 1,216,371; 1,232,553; 1,239,768; 1,251,295; 1,251,296; 1,274,145; 1,277,503; 1,280,636; 1,300,110; 1,315,045; 1,323,228; 1,464,984; 1,483,627; 1,493,320; 1,507,993; 1,512,897
—, —, "red mud residues" for, 1,137,860
—, —, sericite for, 1,324,318
—, —, soap for, 1,197,107
—, —, soap, aluminum, for, 1,197,107
—, —, sodium aluminate for, 1,215,351; 1,216,371; 1,251,295; 1,251,296; 1,315,045
—, —, sodium bicarbonate for, 1,324,318
—, —, sodium carbonate for, 1,323,228; 1,324,318
—, —, sodium hydroxide for, 1,215,351; 1,216,371; 1,323,228; 1,324,318
—, —, sodium nitrate for, 1,323,228
—, —, sodium sulfate for, 1,277,503
—, —, sulfuric acid for, 1,216,371; 1,232,553; 1,239,768
—, —, viscose diaphragm for, 1,216,371
—, —, water for, 1,161,750
—, marine animal oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, menhaden oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516

Aluminum hydroxide, mimeograph ink contg., 1,381,648
—, mineral contg., finely divided, mfr. of, acid, mineral, for, 1,501,865
—, —, —, —, process for, 1,501,865
—, —, —, —, sulfuric acid for, 1,501,865
—, mortar, waterproofing of using, 1,134,573
—, nickel, catalyst, made with, 1,139,592; 1,172,062
—, nitric acid made with, 1,200,334
—, non-gelatinous, mfr. of, ammonium hydroxide for, 1,502,285
—, —, —, potassium aluminum sulfate for, 1,502,285
—, —, —, process for, 1,502,285
—, oil, vegetable, hydrogenation of, using, 1,247,516
—, —, water, boiler feed, removal from of, using, 1,243,191
—, oils treated with, linoleum mfr. with, 1,438,222
—, oleum for dissolving, 1,351,144
—, paint made with, 1,157,525; 1,181,588; 1,183,665; 1,195,604; 1,201,093; 1,211,346; 1,276,861; 1,369,252
—, paint, anti-fouling, made with, 1,195,604
—, paint pigment contg., 1,460,699
—, paper, coating of using, 1,265,356; 1,517,996
—, —, etchable coating for, made with, 1,265,356
—, —, sizing of, using, 1,211,288
—, paper filler contg., 1,390,297
—, pectin, removal from of, alcohol for, 1,497,884
—, —, —, hydrochloric acid for, 1,497,884
—, —, —, process for, 1,497,884
—, pectin product made with, 1,497,884
—, perborate, stabilization of with, 1,275,765
—, petroleum desulfurized with, 1,457,656
—, phosphoric acid, treatment of with, 1,269,080
—, phosphorus compounds, marine animal oils, removal from of, using, 1,247,516
—, pigment made with, 1,157,525; 1,166,808; 1,181,588; 1,183,665; 1,195,604; 1,201,093; 1,211,346
—, pigment contg., finely divided, mfr. of, acid, mineral. for, 1,501,865
—, —, —, —, process for, 1,501,865
—, —, —, —, sulfuric acid for, 1,501,865
—, plant sprays contg., 1,460,012
—, plaster, waterproofing of, using, 1,177,156
—, plastic made with, 1,190,815; 1,507,379
—, porcelain made with, 1,507,379
—, potassium bichromate, recovery of using, 1,201,392
—, potassium salts, recovery of from wool scouring liquor with, 1,325,873
—, precipitating, hydroxide for, 1,368,392
—, precipitating in non-colloidal form, ammonia for, 1,337,191; 1,337,192
—, precipitation of, calcium carbonate for, 1,325,129
—, —, carbon dioxide for, 1,305,969; 1,325,882
—, preparation of, 1,395,902
—, —, ammonium hydroxide for, 1,386,920
—, refractory made with, 1,244,275
—, resistance, electric, made with, 1,507,379
Aluminum hydroxide, rock flour contg., finely divided, mfr. of, acid, minerals, for, 1,501,865
—, —, —, —, process for, 1,501,865
—, —, —, —, sulfuric acid for, 1,501,865
—, roofing made with, 1,235,258
—, rubber composition contg., 1,301,693
—, rubber compound contg., 1,370,965
—, "satin white" contg., 1,381,991; 1,390,297
—, sewage treated with, 1,392,211
—, sewage, treatment of, using, 1,505,104
—, silicon made with, 1,512,462
—, silicon alloy made with, 1,512,462
—, silver, gelatin emulsions of, recovery from of, using, 1,234,390
—, —, photographic emulsions of, recovery from of, using, 1,234,390
—, slaughter house effluent, treatment of, using, 1,505,104
—, sludge contg., treating, 1,445,917
—, soap substitute contg., 1,395,902
—, sodium aluminate made from, 1,378,105; 1,379,729
—, sodium bichromate, recovery of using, 1,201,392
—, sodium perborate, stabilization of with, 1,275,765
—, solution, evaporation of, using, 1,126,471
—, squill glucoside made with, 1,516,552
—, stone, waterproofing of, using, 1,177,156
—, straw board made with, 1,235,258
—, sugar solution, iron removed from using, 1,150,194
—, —, purification of using, 1,150,194
—, —, treatment of using, 1,244,012
—, sulfur made using, 1,331,645
—, sulfur compounds, marine animal oils, removal from of, using, 1,247,516
—, sulfuric acid action of on, 1,441,731
—, sulfur purified using, 1,331,645
—, sweet water, iron removed from using, 1,150,194
—, —, purification of using, 1,150,194
—, tanning with, 1,404,957
—, textile, waterproofing of, using, 1,228,987; 1,228,988
—, thiodiglycol treated with, 1,422,869
—, tile made with, 1,235,258
—, tire filler made with, 1,193,196
—, titanium oxide stabilized with, 1,368,392
—, wall board made with, 1,235,258
—, washing preparation contg., 1,395,902
—, water, boiler feed, oil, removal of from, using, 1,243,191
—, —, purification of using, 1,192,075; 1,197,123
—, —, treatment of with, 1,161,750; 1,505,104
—, waterproofing using, 1,177,156; 1,197,107; 1,208,400; 1,228,987; 1,228,988
—, water purified using, 1,219,333
—, whale oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of using, 1,247,516
—, wool, water-proofing of using, 1,208,400
—, *see also Bauxite; Diaspore; Gibbsite; Satin white*
—, (basic), explosive contg., 1,464,667
—, —, explosives, explosion temperature of reduced with, 1,464,667

Aluminum hydroxide (basic), see also Gibbsite
—, (bauxite), brick contg., 1,373,854
Aluminum hypochlorite, chlorhydrins mfr. with, 1,465,595
Aluminum iodide, mfr. of, apparatus for, 1,308,885
—, —, process for, 1,308,885
—, preparation of, 1,460,898
Aluminum iron, heat insulator, 1,301,675
Aluminum iron alloy, explosive contg., 1,410,868
Aluminum iron silicate, hydrated, catalyst in acetylene products mfr., 1,421,743
—, *see also Iron-aluminum silicate*
Aluminum iron sulfate, paper sized with, 1,229,924
—, pulp sized with, 1,229,924
—, size made with, 1,229,924
Aluminum lignosulfonate, rubber composition made with, 1,217,157
Aluminum linoleate, asbestos water-proofing of with, 1,280,954
—, fiber, animal, water-proofing of with, 1,280,954
—, —, mineral, water-proofing of with, 1,280,954
—, —, vegetable, water-proofing of with, 1,280,954
—, ink, lithographic, made with, 1,131,578
—, insulation, electric, made with, 1,131,578
—, linseed oil contg., 1,407,952
—, mfr. of, alum for, 1,131,578
—, —, aluminum salt for, 1,131,578
—, —, linseed oil for, 1,131,578
—, —, process for, 1,131,578
—, —, sodium aluminum sulfate for, 1,131,578
—, —, sodium hydroxide for, 1,131,578
—, paint made with, 1,131,578; 1,421,625
—, paint, vehicle contg., 1,428,273
—, varnish made with, 1,131,578
Aluminum lithium silicate, see Spodumene
Aluminum-magnesium alloy, magnesium made with, 1,258,261
—, mfr. of, aluminum cathode for, 1,258,261
—, —, magnesium chloride for, 1,258,261
—, —, potassium chloride for, 1,258,261
—, —, process for, 1,258,261
—, match-head composition contg., Re-15,039; 1,360,283
Aluminum magnesium fluoride, enamel made with, 1,518,872
—, glass, opalescent, made with, 1,518,872
—, —, opaque, made with, 1,518,872
—, mfr. of, aluminum for, 1,518,872
—, —, magnesium fluosilicate for, 1,518,872
—, —, process for, 1,518,872
Aluminum magnesium garnet, see Pyrope
Aluminum magnesium oxide, see Spinel
Aluminum magnesium silicate, alkaloids precipitated with, 1,300,747
—, mfr. of, flint for, 1,172,659
—, —, kaolin for, 1,172,659
—, —, magnesia for, 1,172,659
—, —, process for, 1,172,659
—, molded article, binder for, made with, 1,172,659
—, silicon carbide, binder for, made with, 1,172,659
—, *see also Pyrope*
Aluminum manganese alloy, explosive contg., 1,410,868
Aluminum manganese garnet, see Spessartite
Aluminum manganese-silicon alloy, explosive contg., 1,410,868
Aluminum methylate, cement contg., 1,450,467
Aluminum minerals, aluminum salt made with, 1,170,418
—, aluminum sulfate made with, 1,170,418
—, dissolving, nitric acid for, 1,464,984
Aluminum mold, doll head made with, 1,209,118
—, horn made with, 1,507,711
—, molded article made with, 1,507,711
Aluminum molybdate, dental cement contg., 1,408,960
Aluminum mordant, hair, dyeing of using, 1,183,748
—, skins, dyeing of using, 1,183,748
Aluminum naphthalate, colloidal solution made using, 1,189,696
Aluminum naphthalene-1-sulfonate, moth repellent made with, 1,494,085; 1,515,182
—, wool, moth repellent, made with, 1,494,085
Aluminum naphthalene-2-sulfonate, moth repellent made with, 1,494,085; 1,515,182
—, wool, moth repellent, made with, 1,494,085
Aluminum naphthenate, coating composition contg., 1,428,272
Aluminum-nickel, thermo-couple contg., 1,393,375
Aluminum-nickel alloy, hardness curve for, 1,278,304
Aluminum-nickel-silicon alloys, hardness curve for, 1,278,304
Aluminum nitrate, acetal made with, 1,312,186
—, alkali earth nitrate made with, 1,321,013
—, alumina made with, 1,494,835
—, aluminum hydroxide made with, 1,321,013; 1,464,984
—, aluminum oxide from, 1,354,824; 1,413,720; 1,413,754
—, aluminum oxide catalyst from, 1,330,772
—, aluminum oxide catalyst prepared from, 1,399,807
—, aluminum oxide nitrous gases from, 1,357,089
—, ammonia, catalyst for the mfr. of, made with, 1,148,570; 1,152,930
—, ammonium nitrate made with, 1,494,835
—, anti-static photographic film contg., 1,431,900; 1,434,453
—, barium nitrate made with, 1,321,013
—, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, carbon monoxide, hydrogen, removal from of, catalyst for, made with, 1,366,176
—, catalyst, dehydrogenation, made with, 1,216,933; 1,271,013
—, —, for the mfr. of, ammonia made with, 1,148,570; 1,152,930
—, —, —, hydrocyanic acid made with, 1,492,194
—, —, —, hydrogen, made with, 1,330,772
—, —, hydrogenation, made with, 1,216,933; 1,271,013
—, —, nickel aluminate-silicate made with, 1,256,032
—, catalyst prepared from, 1,366,176; 1,391,666
—, catalyst promoter, 1,271,013

Aluminum nitrate, chrome yellow made with, 1,484,088
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, decomposing, 1,413,754
—, dehydrogenation, catalyst for, made with, 1,216,933
—, double salt with potassium nitrate, 1,377,081
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, fertilizer contg., mfr. of, process for, 1,266,198
—, film, photographic, made with, 1,431,900; 1,434,453
—, glucose, decolorizing of, using, 1,511,472
—, —, purification of, using, 1,511,472
—, heater, chemical, made with, 1,506,322
—, hydrocyanic acid, catalyst for the mfr. of, made with, 1,492,194
—, hydrogen, carbon monoxide, removal of from, catalyst for, made with, 1,366,176
—, —, catalyst for the mfr. of, made with, 1,330,772
—, hydrogen sulfide made with, 1,321,013
—, hydrogenation, catalyst for, made with, 1,216,933
—, iron removal from, 1,421,804; 1,464,984
—, lamp, electric, glower for, made with, 1,123,625
—, lead chromate made with, 1,484,088
—, mfr. of, kaolin for, 1,507,993
—, —, labradorite for, 1,507,993
—, —, leucite for, 1,507,993
—, —, nitric acid for, 1,507,993
—, —, process for, 1,507,993
—, nickel, etching of, electrolytic contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, nitric acid from, 1,413,754
—, nitrate, nitric acid recovery from, 1,464,984
—, pigment made with, 1,484,088
—, plagioclase as source of, 1,354,824
—, polish made with, 1,128,287
—, potassium nitrate for, 1,494,835
—, producing, 1,464,984
—, production from clays, 1,357,089
—, silk, weighting of, using, 1,496,064; 1,496,065
—, sodium nitrate made with, 1,494,835
—, steel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, sugar, beet, decolorizing of, using, 1,511,472
—, —, —, purification of, using, 1,511,472
—, —, cane, decolorizing of, using, 1,511,472
—, —, —, purification of, using, 1,511,472
—, sugar solutions, decolorizing of, using, 1,511,472
—, —, purification of, using, 1,511,472
—, zeolite, artificial, made with, 1,263,707
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, (basic), aluminum hydroxide from, 1,464,984
—, —, decomposing, 1,413,754
—, —, producing, 1,464,984
Aluminum nitride, alkali cyanide made with, 1,472,403; 1,506,269
—, aluminum chloride made with, 1,372,332
—, aluminum compound made with, 1,229,611
Aluminum nitride, aluminum oxide made with, 1,159,989; 1,162,130; 1,228,119; 1,261,526
—, aluminum oxide for producing, 1,344,153
—, aluminum scrap made with, 1,502,129
—, aluminum sulfate made with, 1,176,292; 1,229,611
—, ammonia made with, 1,158,899; 1,159,989; 1,188,770; 1,198,965; 1,229,611; 1,252,649; 1,261,526; 1,502,129
—, ammonium salts made with, 1,162,130
—, barium cyanamide made with, 1,506,269
—, barium cyanide made with, 1,506,269
—, calcium cyanamide made with, 1,506,269
—, calcium cyanide made with, 1,506,269
—, catalyst, hydrocyanic acid made with, 1,492,194
—, chlorine and for mfr. of aluminum chloride, 1,372,332
—, coke made with, 1,482,438
—, copper compound made with, 1,228,119; 1,229,611
—, cyanides made with, 1,506,269
—, electrical resistor contg., 1,393,373
—, ferrocyanide made with, 1,506,269
—, gasolene made with, 1,482,438
—, kerosene made with, 1,482,438
—, lamp, electric, incandescent, made with, 1,234,691
—, lead compound made with, 1,228,119
—, mfr. of, 1,350,149; 1,415,036
—, —, air for, 1,143,482
—, —, alumina for, 1,158,899; 1,188,651; 1,212,119; 1,217,842; 1,241,834
—, —, aluminum for, 1,188,769; 1,188,771
—, —, aluminum alloy for, 1,188,769
—, —, aluminum carbide for, 1,188,769; 1,188,770; 1,188,771; 1,188,772; 1,252,649
—, —, aluminum compound for, 1,415,036
—, —, aluminum oxide for, 1,145,747; 1,158,899; 1,188,770; 1,188,771; 1,188,772; 1,212,119; 1,233,925; 1,233,926; 1,257,995; 1,263,389; 1,263,390; 1,268,240; 1,274,797; 1,305,414
—, —, aluminum oxide, (AlO), for, 1,188,771
—, —, aluminum residue for, 1,415,036
—, —, aluminum scrap for, 1,502,129
—, —, alunite for, 1,188,651; 1,250,874; 1,393,370; 1,393,371; 1,393,372; 1,415,036
—, —, apparatus for, 1,145,747; 1,158,899; 1,212,119; 1,217,842; 1,233,925; 1,233,926; 1,241,834; 1,250,875; 1,252,649; 1,274,797; 1,305,414; 1,311,568; 1,393,370; 1,393,371; 1,393,372; 1,415,446
—, —, atmosphere artificial for, 1,366,720
—, —, barium oxide for, 1,268,240
—, —, barium sulfate for, 1,268,240
—, —, bauxite for, 1,143,482; 1,145,747; 1,158,899; 1,188,651; 1,233,925; 1,233,926; 1,241,834; 1,252,649; 1,268,240; 1,393,370; 1,393,371; 1,393,372; 1,415,036; 1,415,446
—, —, bauxite, red, for, 1,158,899
—, —, boron as catalyst for, 1,188,769; 1,188,770
—, —, boron compound as catalyst for, 1,188,769; 1,188,770
—, —, brick, refractory, for, 1,250,874
—, —, calcium carbide for, 1,188,770
—, —, calcium carbonate for, 1,268,240

Aluminum nitride, mfr. of, calcium compound as catalyst for, 1,188,771; 1,188,772
—, —, calcium oxide for, 1,188,769; 1,188,770; 1,188,771; 1,188,772; 1,268,240
—, —, carbon for, 1,143,482; 1,145,747; 1,158,899; 1,188,651; 1,188,769; 1,188,770; 1,188,771; 1,188,772; 1,212,119; 1,217,842; 1,233,925; 1,233,926; 1,252,649; 1,257,995; 1,263,389; 1,263,390; 1,268,240; 1,274,797; 1,305,414; 1,311,568
—, —, carbon dioxide for, 1,188,771; 1,233,926
—, —, carbon monoxide for, 1,158,899; 1,188,769; 1,188,770; 1,188,771; 1,188,772; 1,233,926; 1,241,834; 1,250,874; 1,274,797
—, —, clay for, 1,393,370; 1,393,371; 1,393,372; 1,415,036
—, —, coal for, 1,158,899; 1,268,240; 1,415,036
—, —, coal, anthracite, for, 1,158,899
—, —, —, bituminous, for, 1,393,370; 1,393,371; 1,393,372; 1,415,036; 1,415,446
—, —, coal dust for, 1,143,482
—, —, coke for, 1,158,889; 1,250,874; 1,393,370; 1,393,371; 1,393,372; 1,415,036; 1,415,446
—, —, copper for, 1,145,747
—, —, copper alloy for, 1,145,747
—, —, copper ore for, 1,145,747
—, —, electrical resistors for, 1,344,153
—, —, ferro-manganese for, 1,145,747
—, —, ferro-nickel for, 1,145,747
—, —, ferro-silicon for, 1,145,747
—, —, ferro-silicon as by-product of, 1,158,899
—, —, flue gas for, 1,188,771
—, —, graphite for, 1,268,240
—, —, hydrocarbon for, 1,241,834
—, —, hydrogen for, 1,188,769; 1,188,770; 1,188,771; 1,188,772
—, —, iron for, 1,145,747; 1,252,649
—, —, iron alloy for, 1,145,747
—, —, iron by product, 1,350,149
—, —, iron carbide for, 1,252,649
—, —, iron ore for, 1,145,747
—, —, iron oxide for, 1,145,747; 1,268,240
—, —, kaolin for, 1,393,370; 1,393,371; 1,393,372; 1,415,036
—, —, magnesium oxide for, 1,268,240
—, —, manganese for, 1,145,747
—, —, manganese alloy for, 1,145,747
—, —, manganese ore for, 1,145,747
—, —, metal hydroxide for, 1,268,240
—, —, metal oxide for, 1,268,240
—, —, metal salt for, 1,268,240
—, —, methane for, 1,188,769; 1,188,770
—, —, nickel for, 1,145,747
—, —, nickel alloy for, 1,145,747
—, —, nickel ore for, 1,145,747
—, —, nitrogen for, 1,145,747; 1,158,899; 1,188,651; 1,188,769; 1,188,770; 1,188,771; 1,188,772; 1,212,119; 1,217,842; 1,233,925; 1,233,926; 1,241,834; 1,252,649; 1,257,995; 1,263,389; 1,263,390; 1,268,240; 1,274,797; 1,305,414; 1,311,568; 1,393,370; 1,393,371; 1,393,372; 1,415,036; 1,415,446
—, —, nitrogen oxides made in connection with, 1,263,389; 1,263,390
—, —, pitch for, 1,393,370; 1,393,371; 1,393,372; 1,415.036; 1,415,446
—, —, potassium carbonate for, 1,268,240
Aluminum nitride, mfr. of, potassium compounds as by product of, 1,350,149
—, —, process for, 1,143,482; 1,145,747; 1,158,899; 1,188,651; 1,188,769; 1,188,770; 1,188,771; 1,188,772; 1,212,119; 1,217,842; 1,233,925; 1,233,926; 1,241,834; 1,250,874; 1,252,649; 1,257,995; 1,263,389; 1,263,390; 1,268,240; 1,274,797; 1,311,568; 1,393,370; 1,393,371; 1,393,372; 1,415,036; 1,415,446
—, —, producer gas for, 1,143,482; 1,158,899; 1,188,651; 1,188,772; 1,241,834; 1,250,874; 1,252,649; 1,305,414
—, —, silicon for, 1,252,649
—, —, silicon carbide for, 1,252,649
—, —, silicon dioxide for, 1,268,240
—, —, sodium carbonate for, 1,268,240
—, —, sodium hydroxide for, 1,188,651
—, —, tar for, 1,393,370; 1,393,371; 1,393,372; 1,415,036; 1,415,446
—, —, titanium for, 1,252,649
—, —, titanium carbide for, 1,252,649
—, —, titanium as catalyst for, 1,188,769; 1,188,770
—, —, titanium compound as catalyst for, 1,188,769; 1,188,770; 1,188,771; 1,188,772
—, —, titanium oxide for, 1,268,240
—, —, water gas for, 1,143,482; 1,188,771
—, —, *see also Nitrogen, fixation of*
—, resistor, electric, made with, 1,393,373
—, sodium aluminate made with, 1,252,649
—, sodium cyanide made with, 1,472,403
—, zinc compound made with, 1,228,119
—, (AlN), aluminum oxide made from, 1,180,840
—, —, ammonia made from, 1,180,840
—, —, mfr. of, alkali metal for, 1,180,840
—, —, —, alumina for, 1,180,840
—, —, —, apparatus for, 1,180,840
—, —, —, bauxite for, 1,180,840
—, —, —, carbon for, 1,180,840
—, —, —, nitrogen for, 1,180,840
—, —, —, process for, 1,180,840
—, —, —, sodium for, 1,180,840
—, —, —, sodium carbonate for, 1,180,840
—, (Al_2N_2), aluminum oxide made with, 1,129,505; 1,129,721
—, —, ammonia made with, 1,129,505; 1,129,721
—, —, formation of, process for, 1,123,585; 1,154,800
—, —, mfr. of, aluminum carbonitride ($Al_2C_3N_6$), for, 1,143,132
—, —, —, aluminum oxide for, 1,143,132
—, —, —, aluminum phosphate for, 1,134,414
—, —, —, aluminum silicates for, 1,129,505; 1,129,721
—, —, —, apparatus for, 1,143,132
—, —, —, carbon for, 1,129,505; 1,129,721; 1,134,414; 1,143,132
—, —, —, coal dust for, 1,129,505; 1,129,721
—, —, —, coke for, 1,129,505; 1,129,721
—, —, —, hydrogen for, 1,129,505; 1,129,721
—, —, —, illuminating gas for, 1,129,505; 1,129,721
—, —, —, microcline for, 1,129,505; 1,129,721
—, —, —, nitrogen for, 1,129,505; 1,129,721; 1,134,414; 1,143,132
—, —, —, orthoclase for, 1,129,505; 1,129,721

Aluminum nitride (Al_2N_2), mfr. of, phosphate rock, alumina contg., for, 1,134,414
—, —, —, potassium silicate for, 1,129,505; 1,129,721
—, —, —, process for, 1,129,505; 1,129,721; 1,134,414; 1,143,132
—, —, —, "Redonda phosphate" for, 1,134,414
—, (Al_2N_3), mfr. of, aluminum phosphate for, 1,134,414
—, —, —, carbon for, 1,134,414
—, —, —, nitrogen for, 1,134,414
—, —, —, phosphate rock, alumina contg., for, 1,134,414
—, —, —, process for, 1,134,414
—, —, —, "Redonda phosphate" for, 1,134,414
—, (Al_3N_4), mfr. of, aluminum phosphate for, 1,134,414
—, —, —, carbon for, 1,134,414
—, —, —, nitrogen for, 1,134,414
—, —, —, phosphate rock, alumina contg., for, 1,314,414
—, —, —, process for, 1,134,414
—, —, —, "Redonda phosphate" for, 1,134,414
Aluminum nitrite, silk, treatment of, using, 1,496,064; 1,496,065
Aluminum oleate, battery, zinc electrode for, coating of using, 1,484,783
—, coating composition contg., 1,393,833; 1,428,272
—, coating composition of rubber, solvents and, 1,393,832
—, copper separated from gangue with, 1,254,173
—, copper separated from iron sulfide with, 1,254,173
—, copper sulfide separated from gangue with, 1,254,173
—, copper sulfide separated from iron sulfide with, 1,254,173
—, gasket made with, 1,519,803
—, ink, printing, made with, 1,237,136
—, lead sulfide separated from gangue with, 1,254,173
—, lead sulfide separated from iron sulfide with, 1,254,173
—, mfr. of, aluminum chloride for, 1,519,803
—, —, aluminum salt for, 1,519,803
—, —, aluminum sulfate for, 1,293,983; 1,519,803
—, —, oleic acid for, 1,293,983; 1,519,803
—, —, process for, 1,519,803
—, —, sodium hydroxide for, 1,519,803
—, —, sodium oleate for, 1,293,983
—, metal sulfide separated from gangue with, 1,254,173
—, paint made with, 1,181,588; 1,183,665
—, paint vehicle contg., 1,428,273
—, paper filler contg., 1,424,306
—, paper waterproofed with, 1,370,650
—, polymerizing, 1,393,833
—, rubber dissolved by, 1,393,832
—, screen, motion picture, made with, 1,151,502
—, solvents for, 1,393,833
—, —, amyl acetate as, 1,243,780; 1,304,120
—, —, benzene as, 1,519,803
—, —, turpentine as, 1,519,803
—, stencil made with, 1,243,780; 1,304,120
Aluminum nitride, stencil, typewriter, made with, 1,293,983; 1,316,067
—, stucco contg., 1,256,847
—, zinc sulfide separated from gangue with, 1,254,173
—, zinc sulfide separated from iron sulfide with, 1,254,173
—, waterproofing made with, 1,231,687
—, waterproofing composition contg., 1,460,251
—, waterproofing reagent contg., 1,432,833
—, zinc sulfide separated from gangue with, 1,254,173
—, zinc sulfide separated from iron sulfide with, 1,254,173
—, *see also Soap, aluminum*
Aluminum ore, abrasive made with, 1,268,532
—, alkali carbonate impurity in, extraction of, 1,308,429
—, alkali compounds, removal of from, process for, 1,251,057
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, alkali hydroxide impurity in, extraction of, 1,308,429
—, alkali oxide impurity in, extraction of, 1,308,429
—, alkali sulfate impurity in, extraction of, 1,308,429
—, alum made with, 1,251,057
—, aluminum made with, 1,251,058
—, aluminum from, process for obtaining, 1,308,429
—, aluminum chloride made with, 1,468,632; 1,478,822; 1,508,451
—, aluminum compound made with, 1,249,125
—, aluminum fluoride from, 1,391,172
—, aluminum oxide made with, 1,249,125; 1,251,057; 1,251,058; 1,478,822
—, aluminum oxide from, process for obtaining, 1,308,429
—, aluminum sulfate made with, 1,251,057; 1,251,058
—, aluminum sulfate from, process for obtaining, 1,308,429
—, ammonia made with, 1,198,965
—, calcium carbonate impurity in, extraction of, 1,308,429
—, calcium compounds, removal of from, process for, 1,251,057; 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, calcium hydroxide impurity in, extraction of, 1,308,429
—, calcium oxide impurity in, extraction of, 1,308,429
—, calcium sulfate impurity in, extraction of, 1,308,429
—, chlorine made with, 1,478,822
—, extraction of, sulfur dioxide and redwood tannin for, 1,308,429
—, —, sulfuric acid and redwood tannin for, 1,308,429
—, —, sulfurous acid and redwood tannin for, 1,308,429
—, gold compounds, removal of from, process for, 1,251,057

Aluminum ore, gold compounds, removal of from, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, iron carbonate impurity in, extraction of, 1,308,429
—, iron compounds, removal of from, process for, 1,251,057; 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, iron hydroxide impurity in, extraction of, 1,308,429
—, iron oxide impurity in, extraction of, 1,308,429
—, iron sulfate impurity in, extraction of, 1,308,429
—, magnesium carbonate impurity in, extraction of, 1,308,429
—, magnesium compounds, removal of from, process for, 1,251,057; 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, magnesium hydroxide impurity in, extraction of, 1,308,429
—, magnesium oxide impurity in, extraction of, 1,308,429
—, magnesium sulfate impurity in, extraction of, 1,308,429
—, manganese carbonate impurity in, extraction of, 1,308,429
—, manganese hydroxide impurity in, extraction of, 1,308,429
—, manganese oxide impurity in, extraction of, 1,308,429
—, manganese sulfate impurity in, extraction of, 1,308,429
—, nitrogen, fixation of, using, 1,198,965
—, potassium carbonate made with, 1,478,822
—, potassium carbonate impurity in, extraction of, 1,308,429
—, potassium compounds, removal of from, process for, 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, potassium hydroxide, extraction of from, 1,308,429
—, potassium oxide impurity in, extraction of, 1,308,429
—, potassium sulfate impurity in, extraction of, 1,308,429
—, purification of, 1,291,979
—, silicon dioxide made with, 1,249,125; 1,251,057
—, silver compounds, removal of from, process for, 1,251,057
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, sodium aluminum aluminate made with, 1,478,822
—, sodium carbonate made with, 1,478,822
—, sodium carbonate impurity in, extraction of, 1,308,429
—, sodium compounds, removal of from, process for, 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, sodium hydroxide impurity in, extraction of, 1,308,429
Aluminum ore, sodium oxide impurity in, extraction of, 1,308,429
—, sodium silicate made with, 1,478,822
—, sodium sulfate impurity in, extraction of, 1,308,429
—, sulfur dioxide made with, 1,249,125
—, sulfur dioxide and redwood tannin for extraction of, 1,308,429
—, sulfuric acid and redwood tannin for extraction of, 1,308,429
—, sulfurous acid and redwood tannin for extraction of, 1,308,429
—, titanium carbonate impurity in, extraction of, 1,308,429
—, titanium compounds, removal of from, process for, 1,251,057; 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, titanium hydroxide impurity in, extraction of, 1,308,429
—, titanium oxide impurity in, extraction of, 1,308,429
—, titanium sulfate impurity in, extraction of, 1,308,429
—, treating of, 1,413,045
—, —, hydrochloric acid for, 1,327,536
—, —, hydrofluoric acid for, 1,391,172
—, —, redwood and sulfur gases for, 1,390,796
—, wood pulp made with, 1,249,125
—, *see also Aluminum oxide; Bauxite; Clay; Corundum; Emery; Kaolin; Ore*
Aluminum oxalate, dye, sulfur, made with, 1,316,742
—, electrolyte contg., 1,273,432
—, etching, electrolyte for contg., 1,273,432
Aluminum oxide, abrasive made with, 1,149,064; 1,199,042; 1,209,333; 1,240,490; 1,240,491; 1,247,337; 1,257,356; 1,263,607; 1,263,709; 1,263,710; 1,268,532; 1,268,533; 1,269,222; 1,442,773
—, abrasive of crystalline, 1,364,849
—, abrasive prepared from, 1,339,344
—, abrasive wheel made with, 1,325,504; 1,403,416
—, agate, artificial, made with, 1,183,255
—, alkali bicarbonate, treatment with of, 1,471,751
—, alkali carbonate, treatment with of, 1,471,751
—, alkali earth bicarbonate, treatment with of, 1,471,751
—, alkali earth carbonate, treatment with of, 1,471,751
—, alkali earth hydroxide, treatment with of, 1,471,751
—, alkali hydroxide, treatment with of, 1,471,751
—, *b*-alumina made with, 1,263,607; 1,263,708; 1,263,709
—, aluminum made using, 1,132,737; 1,220,843; 1,257,995; 1,273,220; 1,512,271; 1,512,462; 1,519,648
—, aluminum, polish for, made with, 1,491,456
—, aluminum alloy made with, 1,220,843; 1,512,462
—, aluminum alloy, copper in, made with, 1,220,843
—, aluminum borate from, 1,399,216; 1,399,217

Aluminum oxide, aluminum carbide made with, 1,219,797; 1,222,593; 1,257,995; 1,270,226; 1,512,271
—, aluminum carbide (Al_2C_3), made with, 1,129,509
—, —, (Al_4C_3), made with, 1,129,509
—, aluminum carbonitride ($Al_2N_2.C_3N_4$), made with, 1,154,801
—, —, ($Al_2C_3N_6$), made with, 1,129,509; 1,143,132
—, —, ($Al_6C_9N_{18}$), made with, 1,137,524
—, aluminum chloride made with, 1,127,465; 1,144,304; 1,268,015; 1,270,226; 1,308,080; 1,308,885; 1,324,143; 1,325,203; 1,331,257; 1,343,662; 1,354,818; 1,375,116; 1,403,061; 1,405,115; 1,422,560; 1,422,568; 1,424,574; 1,430,449; 1,468,632; 1,478,822; 1,489,021; 1,490,021; 1,503,648; 1,508,451; 1,509,605; 1,519,648
—, aluminum compound made with, 1,229,611
—, aluminum cyanide ($Al_2(CN)_6$), made with, 1,143,132
—, aluminum fluoride from, 1,293,703
—, aluminum hydroxide made with, 1,197,107
—, aluminum nitride made with, 1,145,747; 1,158,899; 1,188,770; 1,188,771; 1,188,772; 1,212,119; 1,233,925; 1,233,926; 1,257,995; 1,263,389; 1,263,390; 1,268,240; 1,274,797; 1,305,414; 1,344,153; 1,350,149
—, (AlO), aluminum nitride made with, 1,188,771
—, aluminum nitride (Al_2N_2), made with, 1,143,132
—, aluminum oxide made with, 1,154,801; 1,197,107; 1,228,119; 1,415,280; 1,478,822
—, aluminum-producing electrolyte contg., 1,464,625
—, aluminum silicate from, 1,362,274
—, aluminum silicate, recovery from of, 1,312,053
—, aluminum silicide made with, 1,512,271
—, aluminum silicide (Al_4Si_3), made with, 1,123,585; 1,154,800
—, aluminum silicon nitride ($Al_4N_4.Si_3N_4$), made with, 1,123,585; 1,154,800
—, aluminum sulfate made with, 1,176,292; 1,229,611
—, aluminum wire insulated by, 1,431,237
—, amines, aromatic, catalyst for the mfr. of, made with, 1,207,802
—, ammonia made with, 1,129,509; 1,154,801; 1,158,899; 1,172,863; 1,198,965; 1,229,611; 1,415,280
—, ammonia, catalyst for the mfr. of, made with, 1,148,570; 1,152,930; 1,489,497; 1,491,588; 1,502,336; 1,510,598
—, ammonium carbonate made with, 1,129,509
—, ammonium nitrite made with, 1,172,863
—, amylene chlorhydrin made with, 1,253,615
—, aniline, catalyst for the mfr. of, made with, 1,207,802
—, arsenic compounds, marine animal oils, removal from of using, 1,247,516
—, balata vulcanized with, 1,289,566
—, barium aluminate made with, 1,240,571; 1,240,572
—, bearing, jewel, synthetic, made with, 1,422,216; 1,438,188
Aluminum oxide, beryllium oxide, alloy of aluminum and beryllium from, 1,254,987
—, beton blocks made with, 1,183,255
—, blast furnace dust contg., 1,161,790
—, borosilicate glass mfr. with, 1,449,793
—, brass cement contg., 1,359,137
—, brick contg., 1,256,042; 1,450,140
—, brick, slag, made with, 1,123,841
—, building material made with, 1,183,255; 1,505,206
—, butylene chlorhydrin made with, 1,253,615
—, calcium made with, 1,512,462
—, calcium, tungsten alloy contg., made with, 1,486,214
—, calcium alloy made with, 1,512,462
—, calcium cyanamide contg., 1,296,820
—, calcium sulfate made with, 1,325,203
—, carbon, mixture of and, mfr. of, aluminum sulfate for, 1,171,360
—, —, —, —, carbon for, 1,171,360
—, —, —, —, hydrocarbon for, 1,171,360
—, —, —, —, hydrogen for, 1,171,360
—, —, —, —, natural gas for, 1,171,360
—, —, —, —, process for, 1,171,360
—, —, —, —, producer gas for, 1,171,360
—, carbon dioxide made with, 1,264,510
—, carbon monoxide made with, 1,123,585; 1,129,509; 1,154,800; 1,264,510
—, carton-pierres contg., 1,256,042
—, catalyst, 1,366,176; 1,374,589; 1,400,959
—, —, (ammonia mfr.) made with, 1,148,570; 1,152,930; 1,489,497; 1,491,588; 1,502,336; 1,510,598
—, —, (hydrocyanic acid mfr.) made with, 1,492,194
—, —, (maleic anhydride mfr.), made with, 1,489,741
—, —, (nitrogen oxides mfr.) made with, 1,207,706; 1,207,707; 1,207,708
—, —, (phthalic anhydride mfr.) made with, 1,489,741
—, —, (sulfuric acid mfr.) made with, 1,420,202; 1,489,497
—, —, acetaldehyde made with, 1,244,901; 1,355,299
—, —, ammonia oxidation, 1,399,807
—, —, benzaldehyde made with, 1,284,887
—, —, benzene made with, 1,330,844
—, —, benzoic acid made with, 1,284,887; 1,374,722
—, —, butene mfr. from butyl alcohol, 1,395,620
—, —, cracking petroleum, 1,295,825
—, —, *o*-cresol oxidation, 1,380,277
—, —, dehydrogenation, made with, 1,271,013
—, —, dinapthylamine made with, 1,499,423
—, —, ester gum made with, 1,242,161
—, —, ethyl alcohol made with, 1,234,886
—, —, ethylene made with, 1,402,329; 1,402,336; 1,421,640
—, —, gasolene made with, 1,479,833
—, —, hydrocarbon cracking, 1,330,844
—, —, hydrocyanic acid made with, 1,492,194
—, —, hydrogen made with, 1,330,772
—, —, hydrogenation made with, 1,271,013
—, —, hydrogenation of hydrocarbon made with, 1,152,765

Aluminum oxide, catalyst, hydrogenation of lamp oil made with, 1,152,765
—, —, hydrogenation of petroleum made with, 1,152,765
—, —, hydrogenation of resin oil made with, 1,152,765
—, —, hydrogenation of shale oil made with, 1,152,765
—, —, kerosene made with, 1,479,833
—, —, lubricating oil made with, 1,350,814
—, —, naphthalene oxidation of using, 1,374,722
—, —, naphthoquinone made with, 1,374,722
—, —, naphthylamine made with, 1,449,423
—, —, nitrogen oxide made with, 1,399,807
—, —, paint made with, 1,242,161
—, —, phthalic anhydride made with, 1,374,722; 1,489,741
—, —, propyl alcohol made with, 1,234,886
—, —, sulfuric acid made with, 1,420,202; 1,420,203
—, —, toluene made with, 1,330,844
—, —, varnish made with, 1,242,161
—, —, water gas reaction made with, 1,489,497
—, —, xylene made with, 1,330,844
—, catalyst poisons, marine animal oils, removal from of using, 1,247,516
—, catalyst promoter, 1,271,013
—, —, ammonia made with, 1,148,570; 1,152,930
—, cement contg., 1,256,042; 1,507,379
—, cement, dental, made with, 1,172,723; 1,226,232
—, —, hydraulic, made with, 1,123,841
—, —, magnesium, made with, 1,212,575
—, —, paint for, made with, 1,197,599
—, cement composition contg., 1,310,520
—, cement comprising compounds of, 1,372,015
—, ceramic insulating material contg., 1,409,953
—, chalk, marking, contg., 1,256,042
—, chlorhydrin made with, 1,253,615
—, chlorine made with, 1,478,822
—, chlorine compounds, marine animals oils, removal from of using, 1,247,516
—, 2-chlor-2-methyl-butane made with, 1,202,282
—, chromium, ductile, made with, 1,297,000
—, clay contg., 1,381,771
—, cloth, coated with, process for, 1,268,030
—, cod oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, colloidal solution of, mfr. of, process for, 1,189,696
—, concrete, filler for, made with, 1,123,841
—, —, paint for, made with, 1,197,599
—, condenser, electrolytic, made with, 1,473,883
—, conduit, electric, made with, 1,505,206
—, copper, aluminum alloy contg., made with, 1,220,843
—, copper compound made with, 1,228,119; 1,229,611
—, corn oil, hydrogenation of, using, 1,247,516
—, corundum made with, 1,413,785
—, cotton seed oil, hydrogenation of, using, 1,247,516
—, crayon wax contg., 1,256,042
—, crucible made with, 1,378,189; 1,450,140; 1,458,723; 1,458,724; 1,458,725; 1,458,726
Aluminum oxide, crucible lined with charcoal and, 1,338,966
—, crystallization of, strontium carbonate for, controlling, 1,339,344
—, crystalline, abrasive made with, 1,310,342
—, —, calcium oxide as impurity in, 1,310,342
—, —, crucibles made with, 1,458,723; 1,458,724; 1,458,725; 1,458,726
—, —, glass contg., granules of, 1,374,136
—, —, iron oxide as impurity in, 1,310,342
—, —, mfr. of, alkali compound for, 1,269,141
—, —, —, bauxite for, 1,310,342
—, —, —, carbon for, 1,310,342
—, —, —, clay for, 1,310,342
—, —, —, coke for, 1,310,342
—, —, —, emery for, 1,310,342
—, —, —, iron for, 1,269,224
—, —, —, iron oxide for, 1,269,141
—, —, —, sodium carbonate for, 1,269,141
—, —, —, zinc oxide for, 1,269,141
—, —, silicon dioxide as impurity in, 1,310,342
—, —, titanium oxide as impurity in, 1,310,342
—, crystallizing, 1,439,286
—, cyanides made with, 1,415,280
—, cyanide derivatives, marine animal oils, removal from of using, 1,247,516
—, cyanogen made with, 1,143,132
—, cyclohexene made with, 1,221,382
—, cyclopentene made with, 1,221,382
—, decolorizing material made with, 1,219,438
—, decomposing with heat, compressed air and alkali acid salt, 1,364,804
—, dental cement made with, 1,507,379
—, dental cement constituent, 1,480,960
—, detergent compound made with, 1,419,625
—, dextrin decolorized by, 1,452,739
—, dextrin purified by, 1,452,739
—, diatomaceous earth contg., 1,379,722
—, dihydro-benzene made with, 1,221,382
—, dissolving with heat, compressed air and alkali acid salt, 1,364,804
—, dissolving of, sodium (potassium) hydroxide for, 1,418,528
—, dye, sulfur, made with, 1,316,742
—, egg preserving compound contg., 1,423,053
—, electric heater made with, 1,318,838
—, electrode, arc-light, made with, 1,134,148; 1,148,183; 1,148,184
—, emery substitute prepared from, 1,339,344
—, enamel contg., 1,496,505
—, enamel, opaque, made with, 1,129,300; 1,314,831
—, —, white, made with, 1,129,300
—, equilibrium of in presence of calcium, iron and silica, 1,372,015
—, ethylene made with, 1,213,368
—, ethylene absorbed in, recovery of, 1,398,882
—, ethylene chlorhydrin made with, 1,253,615
—, feldspar, recovery from of, 1,312,053
—, fertilizer contg., 1,386,331
—, fish oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, flotation of, oleic acid for, 1,255,749
—, —, process for, 1,255,749
—, fluosilicic acid made with, 1,264,510

Aluminum oxide, formaldehyde-sulfurous acid, aluminum salt of, made with, 1,149,712
—, formation of, 1,327,536; 1,379,886; 1,426,890; 1,426,891; 1,464,373
—, —, aluminum nitrate for, 1,354,824
—, —, alunite for, 1,422,848
—, —, chloride for, 1,434,085
—, —, potassium aluminum sulfate for, 1,406,890
—, —, sodium aluminate for, 1,422,004
—, furnace lining of, 1,415,516
—, fusing, electric furnace for, 1,352,387
—, fusion of, alkali compound for, 1,269,141
—, —, iron oxide for, 1,269,141
—, —, process for, 1,269,141
—, —, sodium carbonate for, 1,269,141
—, —, zinc oxide for, 1,269,141
—, gasolene made with, 1,373,653
—, glass made with, 1,151,911; 1,287,005; 1,304,623; 1,365,797; 1,394,296; 1,403,752; 1,408,145; 1,449,793; 1,510,521; 1,513,923
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,143,788; 1,314,831
—, —, semi-translucent, made with, 1,287,005
—, —, translucent, made with, 1,143,788
—, glass composition contg., 1,415,980
—, glass contg. granules of crystalline, 1,374,136
—, glaze, opaque, made with, 1,314,831
—, glower made with, 1,135,663
—, glucose decolorized by, 1,452,739
—, glucose purified by, 1,452,739
—, glycol made with, 1,213,368
—, gutta percha vulcanized with, 1,289,566
—, heat-conducting material made with, 1,402,750
—, heater, electric, made with, 1,507,379
—, hexylene chlorhydrin made with, 1,253,615
—, hydrated, abrasive made with, 1,199,042
—, —, binder for, aluminum salt as, 1,312,853
—, —, —, aluminum sulfate as, 1,312,853
—, —, —, ammonium nitrate as, 1,312,853
—, —, —, ammonium sulfate as, 1,312,853
—, —, —, mineral acid as, 1,312,853
—, —, —, mineral salt as, 1,312,853
—, —, —, nitric acid as, 1,312,853
—, —, —, sulfuric acid as, 1,312,853
—, —, —, zirconium sulfate as, 1,312,853
—, —, formation of, 1,426,891
—, —, hydrogenation of, catalyst for, made with, 1,152,765
—, hydrocarbons refined with, 1,435,824
—, hydrochloric acid made with, 1,489,021
—, hydrocyanic acid, catalyst for the mfr. of, made with, 1,492,194
—, hydrofluoric acid recovered using, 1,219,438
—, hydrogenation catalyst made using, 1,152,765
—, hydrogenation process using, 1,247,516
—, hydrogen dioxide, stabilization of with, 1,275,765
—, insulating composition made with, 1,329,094; 1,402,750
—, insulation, electric, made with, 1,155,812; 1,161,989; 1,329,094; 1,398,143
—, —, heat, made with, 1,374,538
—, iodine compounds, marine animal oils, removal from of using, 1,247,516
—, iron, cast, composition of and, 1,422,295; 1,464,102
Aluminum oxide, iron, tungsten alloy contg., made with, 1,486,214
—, iron coated with catalyst, gasolene made using, 1,494,125
—, iron coated with chromium by aid of, 1,365,499
—, iron-free, mfr. of, 1,413,720
—, —, —, process for, 1,132,737
—, iron(ic) oxide, separation of from, 1,490,021
—, iron precipitated by, 1,413,720
—, iron removal from, 1,430,454
—, iron removed from aluminum solution with, 1,421,804
—, iron retorts coated with aluminum by, 1,454,708
—, iron tin plated in presence of, 1,397,514
—, jewel bearings fused on, 1,422,216
—, kaolin, recovery from of, 1,312,053
—, kiln lining bricks contg., 1,378,710
—, lace, coated with, process for, 1,268,030
—, lamp, electric, made with, 1,135,663
—, —, —, glower for, made with, 1,123,625
—, —, oil, hydrogenation of, catalyst for made with, 1,152,765
—, lead compound made with, 1,228,119
—, leather, artificial, made with, 1,334,297
—, leather treated with, 1,346,385
—, leatheroid contg., 1,334,297
—, lepidolite, recovery from of, 1,312,053
—, leucite, recovery from of, 1,312,053
—, lightning arrester made with, 1,238,660
—, linseed oil substitute made with, 1,197,599
—, magnesia article, bonded, made with, 1,394,442
—, magnesite refractory contg., 1,305,457
—, magnesium aluminate made with, 1,394,442
—, magnesium cyanamide effected by, 1,291,498
—, maleic anhydride, catalyst for mfr. of, made with, 1,489,741
—, mfr. of, air for, 1,136,549
—, —, albite for, 1,514,657
—, —, alkali for, 1,270,266
—, —, alkali aluminate for, 1,159,989; 1,263,705; 1,315,045; 1,415,280; 1,514,657
—, —, alkali borate for, 1,415,280
—, —, alkali carbonate for, 1,228,119; 1,262,062; 1,285,796; 1,415,280
—, —, alkali earth aluminate for, 1,159,989
—, —, alkali earth hydroxide for, 1,256,605
—, —, alkali earth orthosilicate for, 1,285,796
—, —, alkali earth oxide for, 1,261,526; 1,263,705; 1,285,796; 1,514,657
—, —, alkali earth salt for, 1,415,280
—, —, alkali hydroxide for, 1,228,119; 1,256,605; 1,262,062; 1,285,796; 1,415,280
—, —, alkali metal for, 1,180,840
—, —, alkali molybdate for, 1,415,280
—, —, alkali oxide for, 1,415,280
—, —, alkali salts for, 1,415,280
—, —, alkali silicates for, 1,239,984; 1,415,280
—, —, alkali sulfide for, 1,228,119; 1,262,062
—, —, alkali titanate for, 1,415,280
—, —, alkali vanadate for, 1,415,280
—, —, alkali zirconate for, 1,415,280
—, —, almandite for, 1,192,394
—, —, alum for, 1,195,655

Aluminum oxide, mfr. of, alum clay for, 1,308,429
—, —, alumina for, 1.180,840
—, —, aluminiferous material for, 1,519,880
—, —, aluminum ammonium sulfate for, 1,512,897
—, —, aluminum carbide for, 1,134,081; 1,228,119
—, —, aluminum carbide (Al_2C_3), for, 1,129,505; 1,129,721
—, —, aluminum carbonitride ($Al_2C_2C_3N_4$), for, 1,154,801
—, —, ($Al_2C_3N_6$), for, 1,129,224; 1,129,505; 1,129,721; 1,134,413
—, —, aluminum chloride for, 1,496,264
—, —, aluminum compounds for, 1,308,429
—, —, aluminum fluoride for, 1,300,110; 1,315,460
—, —, aluminum hydroxide for, 1,197,107; 1,314,709; 1,314,710
—, —, aluminum nitrate for, 1,357,089
—, —, aluminum nitride for, 1,159,989; 1,162,130; 1,228,119; 1,261,526
—, —, aluminum nitride (AlN), for, 1,180,840
—, —, —, (Al_2N_2), for, 1,129.505; 1,129,721
—, —, aluminum oleate for, 1,197,107
—, —, aluminum ore for, 1,249,125; 1,251,057; 1,251,058; 1,478,822
—, —, aluminum oxide for, 1,154,801; 1,228,119; 1,249,125; 1,415,280; 1,478,822
—, —, aluminum oxide ore, for, 1,212,334
—, —, aluminum silicate for, 1,129,224; 1,129,505; 1,129,721; 1,132,737; 1,239,984; 1,245,383; 1,249,125; 1,251,057; 1,251,058; 1,277,503; 1,300,417; 1,300,418; 1,478,822; 1,506,104
—, —, aluminum silicate ore for, 1,212,334; 1,249,125
—, —, aluminum skimmings for, 1,228,119; 1,262,062
—, —, aluminum sulfate for, 1,132,736; 1,132,737; 1,132,738; 1,171,360; 1,249,125; 1,252,384; 1,282,273; 1,489,362; 1,512,897
—, —, aluminum sulfide ore for, 1,249,125
—, —, aluminum sulfite for, 1,326,384
—, —, alunite for, 1,136,549; 1,191,105; 1,191,106; 1,195,655; 1,214,991; 1,233,977; 1,239,768; 1,239,984; 1,249,125; 1,255,749; 1,256,605; 1,268,433; 1,270,266; 1,274,145; 1,277,773; 1,282,273; 1,301,394; 1,317,686; 1,386,031; 1,401,136; 1.401.137
—, —, alunogen for, 1,252,384; 1,280,636
—, —, ammonia for, 1,162,130; 1,300,110
—, —, ammonia, gas contg., for, 1,162,130
—, —, ammonium aluminum sulfate for, 1,280,636
—, —, ammonium ferrocyanide for, 1,162,130
—, —, ammonium fluoride for, 1,300,110
—, —, ammonium hydroxide for, 1,162,130; 1,274,145; 1,277,773; 1,280,636; 1,302,852; 1,512,897
—, —, ammonium sulfate for, 1,280,636
—, —, anorthosite for, 1,302,852
—, —, apparatus for, 1,132,736; 1,132,737; 1,132,738; 1,180,840; 1,192,394; 1,245,383; 1,249,125; 1,280,636; 1,314,709; 1,314,710; 1,315,460; 1,478,822; 1,506,104
—, —, arsenic oxide for, 1,332,113
—, —, barium aluminate for, 1,191,106; 1,240,571
Aluminum oxide, mfr. of, barium hydroxide for, 1,191,106
—, —, barium oxide for, 1,191,106
—, —, bauxite for, 1,132,737; 1,159,989; 1,162,130; 1,180,840; 1,200,334; 1,228,119; 1,245,383; 1,249,125; 1,282,222; 1,300,110; 1,308,429; 1,314,709; 1,314,710; 1,326,384; 1,514,657
—, —, bituminous shale for, 1,506,104
—, —, calcium for, 1,192,394
—, —, calcium carbonate for, 1,212,334; 1,252,384; 1,277,503; 1,282,222; 1,514,657
—, —, calcium chloride for, 1,282,222; 1,478,822; 1,514,657
—, —, calcium hydroxide for, 1,174,795; 1,256,605; 1,262,062; 1,282,222; 1,326,384; 1,332,113
—, —, calcium oxide for, 1,204,932; 1,261,526; 1,262,062; 1,270,266; 1.514,657
—, —, carbon for, 1,129,224; 1,129 505; 1,129,721; 1,134.081; 1,136.549; 1,154,801; 1,171,360; 1,180,840; 1,192.394; 1,245,383; 1,253,560; 1,277,503; 1,332,113; 1,506,104; 1,514,657
—, —, carbon dioxide for, 1,197.107; 1,214,991; 1,270.266; 1,277.503; 1,312,053; 1,326,384; 1,478,822; 1,489,362
—, —, cellulose for, 1.249,125
—, —, cerecite for, 1,253,560
—, —, chlorine for, 1,357,089; 1,506,104
—, —, chromium oxide for, 1,415,280
—, —, clay for, 1.132.737; 1.162.130; 1,251,057; 1,251,058; 1,282.222; 1,300,110; 1,300,417; 1,300,418; 1,308.429; 1,326,384; 1,357,089; 1,406.890; 1,478,822; 1,506,104; 1,514,657; 1,519,880
—, —, clay, calcium chloride and arsenic trioxide for, 1,332,115
—, —, —, China, for, 1,326,384
—, —, —, fire, for, 1,132,737; 1,415,280
—, —, —, flint for, 1,132,737
—, —, —, Truesdale for, 1,132,737
—, —, coal for, 1,136,549; 1,159.989
—, —, coal, slatey, for, 1,506,104
—, —, coal dust for, 1,129,505; 1,129,721
—, —, coal gas for, 1,195,655
—, —, cobalt for, 1,415,280
—, —, coke for, 1,129,505; 1,129,721; 1,134,081; 1,136,549; 1,192,394; 1,282,222
—, —, coke oven gas for, 1,162,130
—, —, columbium oxide for, 1,415,280
—, —, crude oil for, 1,253,560
—, —, cryolite for, 1,132,737
—, —, earth for, 1,251,057; 1,251,058; 1,308,429
—, —, electrolytic cell for, 1,253,560
—, —, feldspar for, 1,129,224; 1,134,081; 1,174,795; 1,253,560; 1,263,705; 1,277,773; 1,285,796; 1,514,657
—, —, ferro-silicon for, 1,245,383
—, —, flue gas for, 1,312,053
—, —, fluosilicic acid for, 1,253,560
—, —, garnet flour for, 1,192,394
—, —, granite for, 1,253.560
—, —, gypsum for, 1,282.222
—, —, halloysite for, 1,308,429; 1,357,089
—, —, halotrichite for, 1,252,381; 1,280,636
—, —, hydrocarbon for, 1,171,360; 1,415,280

Aluminum oxide, mfr. of, hydrochloric acid for, 1,191,106; 1,212,334; 1,277,773; 1,357,089; 1,478,822; 1,496,264; 1,519,880
—, —, hydrofluoric acid for, 1,174,795; 1,253,560
—, —, hydrofluosilicic acid for, 1,174,795
—, —, hydrogen for, 1,129,505; 1,129,721; 1,132,736; 1,132,737; 1,171,360
—, —, hydrogen sulfide for, 1,228,119
—, —, illuminating gas for, 1,129,505; 1,129,721; 1,195,655
—, —, iron for, 1,415,280
—, —, iron filings for, 1,415,280
—, —, iron ore for, 1,489,362
—, —, iron ore, Cuban, for, 1,212,334; 1,237,765
—, —, iron oxide for, 1,415,280
—, —, iron oxide ore for, 1,212,334
—, —, iron silicate ore for, 1,212,334
—, —, iron sulfide for, 1,245,383
—, —, kaolin for, 1,245,383; 1,300,110; 1,357,089; 1,478,822
—, —, kaolinite for, 1,132,737
—, —, kiln for, 1,317,686
—, —, labradorite for, 1,302,852
—, —, lamp black for, 1,136,549
—, —, laterite for, 1,249,125; 1,308,429
—, —, leucite for, 1,129,224; 1,134,081; 1,263,705; 1,285,796; 1,514,657
—, —, leucite rocks for, 1,496,264
—, —, lignite for, 1,506,104
—, —, lime for, 1,282,222; 1,514,657
—, —, limestone for, 1,212,334; 1,282,222
—, —, magnesium carbonate for, 1,514,657
—, —, manganese for, 1,514,657
—, —, manganese oxide for, 1,415,280; 1,514,657
—, —, marl for, 1,357,089
—, —, metal oxide for, 1,415,280
—, —, methane for, 1,415,280
—, —, microcline for, 1,129,505; 1,129,721; 1,253,560
—, —, molybdenum oxide for, 1,415,280
—, —, Mond's gas for, 1,162,130
—, —, natural gas for, 1,171,360; 1,415,280
—, —, nickel for, 1,415,280
—, —, nitric acid for, 1,274,145; 1,302,852; 1,357,089
—, —, nitrogen for, 1,129,224; 1,129,505; 1,129,721; 1,136,549; 1,154,801; 1,159,989; 1,180,840; 1,415,280
—, —, nitrogen oxides for, 1,302,852
—, —, oil shale for, 1,506,104
—, —, ore, aluminum, for, 1,308,429
—, —, orthoclase for, 1,129,224; 1,129,505; 1,129,721; 1,253,560; 1,277,773; 1,478,822; 1,514,657
—, —, oxygen for, 1,197,107
—, —, ozone for, 1,252,384
—, —, pholerite for, 1,132,737
—, —, plagioclase for, 1,302,852
—, —, potassium aluminate for, 1,191,106
—, —, potassium aluminum sulfate for, 1,195,655; 1,300,417; 1,300,418
—, —, potassium carbonate for, 1,277,773; 1,285,796; 1,312,053; 1,415,280; 1,514,657
—, —, potassium chloride for, 1,478,822
—, —, potassium ferrocyanide for, 1,162,130
—, —, potassium hydroxide for, 1,237,765; 1,274,145; 1,415,280; 1,496,264; 1,514,657
Aluminum oxide, mfr. of, potassium oxide for, 1,415,280
—, —, potassium salts for, 1,415,280
—, —, potassium silicates for, 1,129,224; 1,129,505; 1,129,721
—, —, predetermined degree of dispersion for, 1,512,897
—, —, process for, 1,129,224; 1,129,505; 1,129,721; 1,132,736; 1,132,737; 1,132,738; 1,134,081; 1,134,413; 1,136,549; 1,154,801; 1,159,989; 1,162,130; 1,171,360; 1,174,795; 1,180,840; 1,191,105; 1,191,106; 1,192,394; 1,195,655; 1,197,107; 1,212,334; 1,214,991; 1,228,119; 1,233,977; 1,237,765; 1,239,768; 1,239,984; 1,240,571; 1,245,383; 1,249,125; 1,251,057; 1,251,058; 1,252,384; 1,253,560; 1,255,749; 1,256,605; 1,261,526; 1,262,062; 1,263,705; 1,268,433; 1,270,266; 1,274,145; 1,277,503; 1,277,773; 1,280,636; 1,282,222; 1,285,796; 1,290,269; 1,300,110; 1,314,709; 1,314,710; 1,315,045; 1,315,460; 1,317,686; 1,326,384; 1,357,089; 1,394,854; 1,410,642; 1,413,720; 1,415,280; 1,422,004; 1,478,822; 1,489,362; 1,496,264; 1,506,106; 1,512,897; 1,514,657; 1,519,880
—, —, producer gas for, 1,154,801; 1,171,360; 1,195,655
—, —, pyrite for, 1,212,334; 1,237,765; 1,245,383
—, —, redwood for, 1,249,125
—, —, residue from, analysis of, 1,436,276
—, —, —, cement regulating composition contg., 1,436,276
—, —, rhyolite ash for, 1,308,429
—, —, rhyolite mud for, 1,308,429
—, —, sand for, 1,134,081; 1,251,057; 1,251,058
—, —, sand, titaniferous, for, 1,415,280
—, —, shale for, 1,357,089; 1,506,104
—, —, shale, argillaceous, for, 1,162,130
—, —, silicates for, 1,263,705; 1,277,773; 1,285,796; 1,404,083
—, —, silicon fluoride for, 1,253,560
—, —, silicon tetrafluoride for, 1,174,795
—, —, soap for, 1,197,107
—, —, soap, aluminum, for, 1,197,107
—, —, sodium for, 1,180,840
—, —, sodium aluminate for, 1,132,737; 1,191,106; 1,214,991; 1,315,045; 1,489,362
—, —, sodium bicarbonate for, 1,312,053
—, —, sodium carbonate for, 1,132,737; 1,180,840; 1,237,765; 1,270,266; 1,282,222; 1,312,053; 1,326,384; 1,415,280; 1,489,362; 1,514,657
—, —, sodium chloride for, 1,192,394; 1,214,991; 1,282,222; 1,332,113; 1,478,822; 1,506,104; 1,514,657
—, —, sodium ferrocyanide for, 1,162,130
—, —, sodium hydroxide for, 1,162,130; 1,228,119; 1,237,765; 1,252,384; 1,262,062; 1,314,709; 1,314,710; 1,326,384; 1,415,280; 1,478,822; 1,514,657
—, —, sodium oxide for, 1,415,280
—, —, sodium salts for, 1,415,280
—, —, sodium silicate for, 1,415,280
—, —, sodium sulfate for, 1,277,503; 1,282,222
—, —, sodium sulfide for, 1,237,765
—, —, sodium vanadate for, 1,415,280
—, —, spodumene for, 1,478,822
—, —, steam for, 1,132,736; 1,132,737; 1,514,657

Aluminum oxide, mfr. of, sulfide for, 1,245,383
—, —, sulfur for, 1,228,119; 1,245,383; 1,262,062
—, —, sulfur dioxide for, 1,251,057; 1,256,605; 1,326,384
—, —, sulfuric acid for, 1,132,737; 1,162,130; 1,174,795; 1,212,334; 1,228,119; 1,233,977; 1,239,768; 1,251,057; 1,262,062; 1,277,773; 1,302,852; 1,357,089; 1,415,280; 1,489,362
—, —, sulfurous acid for, 1,249,125
—, —, tannic acid for, 1,249,125; 1,251,057
—, —, tannin for, 1,249,125; 1,251,057
—, —, titanium oxide for, 1,415,280
—, —, tungsten oxide for, 1,415,280
—, —, vanadium oxide for, 1,415,280
—, —, water for, 1,129,505; 1,129,721; 1,159,989; 1,261,526
—, —, water gas for, 1,132,736; 1,132,737; 1,195,655
—, —, zeolite for, 1,514,657
—, —, zinc for, 1,228,119
—, —, zirconium oxide for, 1,415,280
—, marble, artificial, made with, 1,183,255
—, marine animal oil, catalyst poison, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, match ignition composition contg., 1,341,012
—, menhaden oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, metal, coated with, process for, 1,268,030
—, —, ductile, made with, 1,297,000
—, —, precious, coated with, 1,335,024
—, mica, recovery from of, 1,312,053
—, mineral contg., finely divided, mfr. of, acid, mineral, for, 1,501,865
—, —, —, —, process for, 1,501,865
—, —, —, —, sulfuric acid for, 1,501,865
—, mineral wool made with, 1,123,841
—, mold made with, 1,516,113
—, molded article made with, 1,398,143
—, molding powder made with, 1,516,113
—, molybdenum, ductile, made with, 1,297,000
—, muffles made with, 1,450,140
—, *natural, see Corundum*
—, nickel oxide glass free from, 1,305,793; 1,305,794
—, nitric acid made with, 1,200,334
—, nitrogen, fixation of, using, 1,198,965
—, nitrogen dioxide made with, 1,172,863
—, nitrogen dioxide, absorption of with, 1,316,950
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,207,706; 1,207,707; 1,207,708
—, nitrogen oxides absorbed by, 1,443,220
—, nitrogen tetroxide, absorption of with, 1,316,950
—, nitrous acid made with, 1,172,863
—, oil, drying, made with, 1,197,599
—, —, vegetable, hydrogenation of, using, 1,247,516
—, olefin chlorhydrin made with, 1,253,615
—, olefin chloride made with, 1,253,615
—, orthoclase, recovery from of, 1,312,053
—, paint made with, 1,197,599; 1,344,861
—, paint, cold-water, contg., 1,256,042
—, —, flat, made with, 1,173,183
—, paint pigment contg., 1,347,191
Aluminum oxide, paper, coated with, process for, 1,268,030
—, pentylene chlorhydrin made with, 1,253,615
—, perborate, stabilization of with, 1,275,765
—, petroleum, hydrogenation of, catalyst for made with, 1,152,765
—, petroleum cracked using, 1,330,844
—, phosphoric acid made with, 1,264,510
—, phosphorus made with, 1,264,510
—, phosphorus compounds, marine animal oils, removal from of using, 1,247,516
—, phosphorus pentoxide made with, 1,264,510
—, phthalic anhydride, catalyst for the mfr of, made with, 1,489,741
—, pigment made with, 1,161,790; 1,166,808; 1,347,191
—, pigment contg., finely divided, mfr. of, acid, mineral, for, 1,501,865
—, —, —, —, process for, 1,501,865
—, —, —, —, sulfuric acid for, 1,501,865
—, pipe made with, 1,505,206
—, plaster made with, 1,256,042; 1,317,680
—, plastic made with, 1,183,255; 1,256,042; 1,317,680; 1,329,094; 1,505,206; 1,507,379
—, polish made with, 1,491,456
—, porcelain made with, 1,343,040; 1,507,379
—, potassium aluminate made with, 1,191,105
—, potassium aluminum silicate, recovery from of, 1,312,053
—, potassium carbonate made with, 1,123,841; 1,478,822
—, potassium compound made with, 1,123,841
—, preparation of, 1,390,796
—, —, clay for, 1,399,217
—, preparing of, aluminum nitrate for, 1,413,754
—, producing from labradorite, 1,333,020
—, propylene chlorhydrin made with, 1,253,615
—, pure, production of, 1,290,269
—, putty contg., 1,256,042
—, pyrometer made with, 1,234,203
—, razor strop abrasive contg., 1,430,052
—, recovery of, 1,415,280
—, reducing to aluminum, hydrocarbon for, 1,350,150
—, —, hydrogen and carbon for, 1,350,150
—, reduction of, electric for, 1,379,523
—, refractory made with, 1,197,626; 1,198,033; 1,227,909; 1,238,020; 1,240,148; 1,240,569; 1,248,486; 1,362,316; 1,374,538; 1,390,327; 1,394,442; 1,439,286; 1,442,413; 1,450,140; 1,483,468; 1,483,469; 1,486,214; 1,520,487
—, refractory compound contg., 1,360,355
—, refractory furnace lining of, 1,328,380
—, refractory glaze produced with, 1,466,213
—, rendering soluble of, process for, 1,471,751
—, resin oil, hydrogenation of, catalyst for made with, 1,152,765
—, resistance, electric, made with, 1,507,379
—, resistance wire, electric, made with, 1,192,457
—, retorts made with, 1,450,140
—, rock constituent, 1,363,254
—, rock flour contg., finely divided, mfr. of, acid, mineral, for, 1,501,865
—, —, —, —, process for, 1 501,865
—, —, —, —, sulfuric acid for, 1,501,865
—, roofing, silicate, made with, 1,123,841
—, rubber, synthetic, vulcanized with 1,289,566

Aluminum oxide, rubber toughened with, 1,467,197
—, rubber vulcanized with, 1,289,566
—, rust-preventative contg., 1,364,134
—, rustproofing using, 1,493,012
—, sand, copper stamp mill, contg., 1,310,520
—, separation from iron oxide, 1,354,824
—, sericite, recovery from of, 1,312,053
—, shale contg., 1,314,752
—, shale oil, hydrogenation of, catalyst for made with, 1,152,765
—, silica, separation of from, 1,490,021
—, silicon made with, 1,512,462
—, silicon, tungsten alloy contg., made with, 1,486,214
—, silicon alloy made with, 1,512,462
—, silicon dioxide made with, 1,415,280; 1,489,021
—, silicon nitride made with, 1,415,280
—, silicon nitrogen compounds prepared with, 1,415,280
—, silicon tetrachloride made with, 1,489,021
—, silicon tetrafluoride made with, 1,264,510
—, siliconite contg., 1,244,275
—, sillimanite, recovery from of, 1,312,053
—, slag ingredient, 1,413,513
—, slate constituent, 1,415,346
—, sodium aluminate made with, 1,301,394; 1,478,822
—, sodium bicarbonate, treatment with of, 1,471,751
—, sodium carbonate made with, 1,478,822
—, sodium hydroxide, treatment with of, 1,471,751
—, sodium perborate, stabilization of with, 1,275,765
—, sodium silicate made with, 1,478,822
—, soldering flux contg., 1,283,909
—, solvent for, cryolite as, 1,171,856
—, spinel, artificial, made with, 1,394,442
—, —, synthetic, made with, 1,422,295; 1,464,102
—, steel made with, 1,322,496
—, stone, artificial, made with, 1,183,255; 1,256,042
—, sugar made with, 1,201,936
—, sugar, beet, crude, decolorized by, 1,452,739
—, —, —, —, purified by, 1,452,739
—, —, cane, crude, decolorized by, 1,452,739
—, —, —, —, purified by, 1,452,739
—, sulfur made with, 1,240,571; 1,331,645
—, sulfur, chlorine and, action of on, 1,405,115
—, sulfur compound, marine animal oils, removal from of, using, 1,247,516
—, sulfur dioxide made with, 1,489,021
—, sulfur free, mfr. of, process for, 1,132,737
—, sulfur purified using, 1,331,645
—, sulfuric acid, catalyst for the mfr. of, made with, 1,420,202; 1,489,497
—, tanning compound made with, 1,269,287
—, tanning process using, 1,346,385
—, terrazzo, non-slip, mfr. of, 1,451,462
—, thorium, tungsten alloy contg., made with, 1,486,214
—, tile contg., 1,256,042
—, tile, anti-slipping, contg.. 1,292,953; 1,451,462
—, titanium(ic) oxide, separation of from, 1,490,021
Aluminum oxide, titanium pigment precipitated upon, 1,410,056
—, *o*-toluidine, catalyst for the mfr. of, made with, 1,207,802
—, transposing with heat. compressed air and alkali acid salt, 1,364,804
—, treating of, sodium silicate for, 1,400,495
—, tungsten, ductile, made with, 1,297,000
—, tungsten alloy, calcium in, made with, 1,486,214
—, —, iron in, made with, 1,486,214
—, —, silicon in, made with, 1,486,214
—, —, thorium in, made with, 1,486,214
—, tungsten filament made with, 1,280,704; 1,461,117; 1,461,118; 1,461,140
—, tungsten filaments prevented from offsetting by, 1,363,162
—, vault, burglar proof, made with, 1,422,295; 1,423,652; 1,464,102
—, vulcanization process using, 1,467,197
—, waste, aluminum chloride made with, 1,343,662
—, water, mineral, contg., 1,160,317
—, water gas reaction, catalyst for, made with, 1,489,497
—, waterproofing using, 1,197,107
—, welding compound contg., 1,283,909
—, whale oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, wire coated with, pearls made while mounted on, 1,466,575
—, wool mordanted with, 1,327,862
—, "xylium," composition of and, 1,175,422; 1,175,423
—, zeolite, artificial, made with, 1,131,503
—, zinc compound made with, 1,228,119
—, zinc recovery with, 1,409,318
—, zinc separation from, 1,444,484
—, zirconium oxide, separation from of, 1,261,948; 1,297,371
—, *see also Aloxite, Alumina; Aluminum ore; Alundum; Amethyst, oriental; Bauxite; Corundum; Diaspore; Emerald, oriental; Emery; Gibbsite; Ruby; Ruby, oriental; Sapphire; Topaz, oriental*
Aluminum oxide film, insulation, electric, fireproof, made with, 1,161,989
Aluminum oxide ore, alum made with, 1,212,334
—, alumina made with, 1,212,334
—, aluminum carbide made with, 1,222,593
—, aluminum compound made with, 1,249,125
—, aluminum oxide made with, 1,212,334; 1,249,125
—, manganese dioxide made with, 1,212,334
—, mfr. of, aluminum for, 1,308,429
—, nickel made with, 1,212,334
—, reduction of, apparatus for, 1,512,271
—, —, carbon for, 1,512,271
—, —, coke for, 1,512,271
—, —, hydrogen for, 1,512,271
—, —, pitch for, 1,512,271
—, —, process for, 1,512,271
—, —, rutile for, 1,512,271
—, —, silica for, 1,512,271
—, —, titanium dioxide for, 1,512,271
—, silicon dioxide made with, 1,249,125

Aluminum oxide ore, sulfur dioxide made with, 1,249,125
—, wood pulp made with, 1,249,125
Aluminum oxycarbide, formation of, feldspar for, 1,445,645
Aluminum oxychloride, billiard ball made with, 1,175,425
—, bone substitute made with, 1,175,425
—, brush back made with, 1,175,425
—, celluloid substitute made with, 1,175,425
—, cement made with, 1,175,426
—, insulation, electric, made with, 1,175,424
—, ivory substitute made with, 1,175,425
—, knife handle made with, 1,175,425
—, molded article made with, 1,175,425
—, plastic made with, 1,175,425; 1,175,426
—, shoe, rubber, mfr. of, last for, made with, 1,175,428
Aluminum oxyhydrate, see Aluminum hydroxide
Aluminum paint, ornaments painted with, 1,294,253
—, *see also Paint, aluminum*
Aluminum palmitate, coating composition contg., 1,276,507; Re-14,570; 1,428,272
—, fat, solvent for, contg., 1,156,119
—, gum, solvent for, contg., 1,156,119
—, molded article made with, 1,500,303
—, oil, solvent for, contg., 1,156,119
—, paint made with, 1,156,119; 1,421,625
—, paint remover contg., 1,156,119
—, paint vehicle contg., 1,428,273
—, paper filler contg., 1,424,306
—, paper waterproofed with, 1,370,650
—, phonograph record made with, 1,276,507; Re-14,570
—, resin, solvent for, contg., 1,156,119
—, roofing made with, 1,248,170
—, screen, motion picture, made with, 1,151,502
—, sizing composition contg., 1,299,663
—, solvent for, carbon tetrachloride as, 1,400,579
—, —, gasolene as, 1,400,579
—, stencil, typewriter, made with, 1,316,067
—, textile, waterproofing of, using, 1,228,987
—, tire, pneumatic ,made with, 1,476,381
—, varnish made with, 1,156,119
—, varnish remover contg., 1,156,119
—, waterproofing using, 1,228,987; 1,400,579
Aluminum perborate, fireproofing using, 1,216,729
—, oak, red, fireproofing of, using, 1,216,729
—, pine, fireproofing of, using, 1,216,729
—, wood, fireproofing of, using, 1,216,729
Aluminum peroxide, mfr. of, boric acid for, 1,169,703
—, —, electrolytic process for, 1,169,703
—, —, gelatin for, 1,169,703
—, —, lead anode for, 1,169,703
—, —, oxygen for, 1,169,703
—, —, phosphoric acid for, 1,169,703
—, —, platinum anode for, 1,169,703
—, —, process for, 1,169,703
—, —, silver, amalgamated, cathode, for, 1,169,703
—, —, starch for, 1,169,703
Aluminum petroleum sulfonates, hydrolzying, 1,438,101
Aluminum phosphate (acid), dental cement contg., 1,408,960
—, airplane fabric made with, 1,427,941
—, aluminum nitride (Al_2N_2), made with, 1,134,414
—, —, (Al_2N_3), made with, 1,134,414
—, —, (Al_3N_4), made with, 1,134,414
—, aluminum carbonitride ($Al_2C_3N_6$), made with, 1,134,414
—, ammonia made with, 1,134,414
—, balloon fabric made with, 1,427,941
—, brass cement contg., 1,359,137
—, calcium phosphate ($Ca_3P_2O_8$), made with, 1,493,100
—, carbon monoxide made with, 1,134,414
—, catalyst, dehydrogenation, made with, 1,271,013
—, —, hydrogenation, made with, 1,172,062
— —, nickel as, made with, 1,172,062
—, catalyst promoter, 1,271,013
—, decomposing, sodium carbonate for, 1,360,248
—, dental cement contg., 1,408,960
—, explosive contg., 1,464,667
—, explosive, explosion temperature of reduced with, 1,464,667
—, fabric flash-proofed with, 1,434,549
—, ferro-phosphorus made with, 1,475,976
—, fertilizer made with, 1,158,711; 1,173,303; 1,360,248
—, flotation of minerals with, 1,425,185
—, flotation of ores with, 1,425,186
—, glass made with, 1,287,005
—, glass, semi-translucent, made with, 1,287,005
—, hydrogenation, catalyst for, made with, 1,172,062; 1,271,013
—, ink contg., 1,439,356
—, mfr. of, process for, 1,129,253
—, nickel, catalyst, made with, 1,172,062
—, precipitation of, 1,421,191
—, sodium phosphate (Na_3PO_4), made with, 1,360,248
—, tent fabric made with, 1,427,941
—, treating of, 1,396,975; 1,437,456
—, underwriters cloth made with, 1,427,941
—, *see also Phosphate rock, alumina contg.; "Redonda phosphate"; (basic), see Evansite*
—, ($AlPO_4$), aluminum carbonitride ($Al_2C_3N_6$), made with, 1,129,514
—, —, ammonia made with, 1,129,514
—, —, carbon monoxide made with, 1,129,514
—, —, phosphorus made with, 1,129,514
—, —, phosphorus carbides made with, 1,129,514
—, —, phosphorus nitride made with, 1,129,514
—, —, phosphorus oxides made with, 1,129,514
Aluminum plate, litho-offset printing, press plate backing of, 1,453,259
—, plate, lithographic, made with, 1,185,506
—, printing plate made with, 1,245,120; 1,302,919; 1,453,259; 1,519,004
—, printing plate, halftone, made with, 1,507,049
—, —, mfr. of, negative for, made with, 1,484,347
Aluminum potassium alginate, cardboard coated with, 1,162,926
—, fabric coated with, 1,162,926
—, leather coated with, 1,162,926

Aluminum potassium alginate, mfr. of, process for, 1,162,926
—, paper coated with, 1,162,926
—, pasteboard coated with, 1,162,926
—, textile coated with, 1,162,926
Aluminum potassium fluoride, aluminum, steel coated with, made with, 1,488,553
—, mfr. of, acid for, 1,517,686
—, —, aluminum salts for, 1,517,686
—, —, argil for, 1,517,686
—, —, hydrochloric acid for, 1,517,686
—, —, potassium fluoride for, 1,517,686
—, —, Potter's earth for, 1,517,686
—, —, process for, 1,517,686
—, steel, aluminum coated, made with, 1,488,553
Aluminum potassium nitrate, medicinal properties of, 1,377,081
—, preparation of, 1,377,081
"Aluminum potassium nitrato-salts," see Aluminum potassium nitrate
Aluminum potassium orthosilicate, see Mica
Aluminum potassium silicate, aluminum carbonitride ($Al_2C_2N_6$), made with, 1,134,413
—, aluminum chloride made with, 1,392,043; 1,392,044
—, aluminum hydroxide made with, 1,324,318
—, aluminum oxide from, process for, 1,312,053
—, ammonia made with, 1,134,411
—, calcium carbonate, action of on, 1,357,873
—, calcium oxide, action of on, 1,379,914
—, carbon, action of on, 1,357,873
—, carbon dioxide, action of on, 1,357,873
—, carbon monoxide made with, 1,134,413
—, coke, action of on, 1,379,914
—, decomposing, ammonium bifluoride for, 1,426,890; 1,426,891
—, fertilizer made with, 1,310,080
—, glower made with, 1,135,663
—, iron(ic) chloride, action of on, 1,379,914
—, iron(ous) chloride, action of on, 1,379,914
—, lamp, electric, made with, 1,135,663
—, potassium from, process for, 1,312,053
—, potassium and aluminum from, 1,404,083
—, potassium carbonitride (K_2CN_2), made with, 1,134,413
—, potassium chloride made with, 1,321,632; 1,392,043; 2,392,044
—, potassium compounds made with, 1,159,464
—, potassium compounds from, sulfur for liberating, 1,346,365
—, potassium silicate from, 1,312,053
—, potassium sulfate made with, 1,159,464
—, silicic acid made with, 1,324,318
—, silicon carbide (SiC), made with, 1,134,413
—, silicon dioxide from, process for, 1,312,053
—, sodium carbonitride (Na_2CN_2), made with, 1,134,413
—, sodium chloride made with, 1,321,632
—, sodium silicate made with, 1,312,053
—, treating, 1,410,642
—, *see also Feldspar, potash; Hylophane; Leucite; Microcline; Nephelite; Orthoclase*
Aluminum potassium sulfate, abrasive, etching of using, 1,482,793
—, adhesive made with, 1,248,039
—, aluminum hydroxide, non-gelatinous, made with, 1,502,285
Aluminum potassium sulfate, aluminum oxide made with, 1,195,655; 1,300,417; 1,300,418; 1,406,890
—, aluminum soap made with, 1,475,804
—, brick, waterproofing of using, 1,390,236
—, building material made with, 1,256,324
—, cellulose ether, composition of and, 1,505,044
—, cement, waterproofing of using, 1,390,236
—, cement contg., gypsum and, 1,338,117
—, concrete, waterproofing of using, 1,390,236
—, corundum, etching of using, 1,482,793
—, egg, preserving of using, 1,475,804
—, emery, etching of using, 1,482,793
—, enamel, opaque, made with, 1,314,831
—, ethyl cellulose, composition of and, 1,505,044
—, fertilizer contg., 1,289,789
—, filament, artificial, made with, 1,505,044
—, film made with, 1,505,044
—, formation from clay, 1,406,890
—, fur skin, tanning of, using, 1,210,968
—, fur tanned using, 1,421,723
—, garnet, etching of using, 1,482,793
—, gelatin made with, 1,289,053
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
—, glue made with, 1,289,053
—, glue, vegetable, made with, 1,248,039
—, gypsum, waterproofing of with, 1,256,324
—, insulation, electric, made with, 1,190,814
—, iron removed from, 1,300,417; 1,300,418
—, leather, coating for, made with, 1,505,044
—, logwood extract, composition of contg., 1,273,293
—, mfr. of, acid sludge for, 1,296,457
—, —, alkali earth hydroxide for, 1,256,605
—, —, alkali earth sulfate for, 1,296,457
—, —, alkali hydroxide for, 1,256,605
—, —, aluminum silicates for, 1,286,513
—, —, aluminum sulfate for, 1,286,513; 1,300,417; 1,300,418
—, —, alunite for, 1,239,768; 1,256,605; 1,277,773; 1,314,280
—, —, ammonium hydroxide for, 1,277,773
—, —, ammonium sulfate for, 1,254,229
—, —, apatite for, 1,126,408
—, —, barium oxide for, 1,126,408
—, —, barium sulfate for, 1,296,457
—, —, bone ash for, 1,126,408
—, —, calcium carbonate for, 1,286,513
—, —, calcium fluoride for, 1,310,413
—, —, calcium hydroxide for, 1,174,795; 1,256,605
—, —, calcium oxide for, 1,126,408; 1,237,197; 1,494,029
—, —, calcium phosphate ($Ca_3(PO_4)_2$), for, 1,126,408
—, —, calcium sulfate for, 1,286,513; 1,296,457; 1,310,413
—, —, carbon dioxide for, 1,494,029
—, —, clay for, 1,165,154
—, —, feldspar for, 1,126,408; 1,165,154; 1,174,795; 1,237,197; 1,277,773; 1,286,513; 1,296,457; 1,310,413; 1,494,029
—, —, feldspar, potash, for, 1,126,408
—, —, feldspathic rock for, 1,237,197
—, —, fluorspar for, 1,310,413

Aluminum potassium sulfate, mfr. of, glauconite for, 1,322,900; 1,323,764
—, —, greensand for, 1,322,900; 1,323,764
—, —, gypsum for, 1,165,154; 1,286,513; 1,296,457; 1,310,413
—, —, hyalophane for, 1,126,408
—, —, hydrochloric acid for, 1,126,408; 1,222,960; 1,277,773
—, —, hydrofluoric acid for, 1,174,795
—, —, hydrofluosilicic acid for, 1,174,795
—, —, iron(ous) sulfate for, 1,323,764
—, —, lepidolite for, 1,286,513; 1,296,457
—, —, leucite for, 1,165,154
—, —, lime for, 1,222,960
—, —, limestone for, 1,165,154; 1,222,960; 1,286,513
—, —, microcline for, 1,126,408
—, —, muscovite for, 1,222,960
—, —, orthoclase for, 1,126,408; 1,286,513; 1,296,457; 1,494,029
—, —, phosphate rock for, 1,126,408
—, —, phosphoric acid for, 1,126,408
—, —, potassium aluminate for, 1,494,029
—, —, potassium aluminum sulfate for, 1,254,229
—, —, potassium carbonate for, 1,277,773
—, —, potassium-mica for, 1,310,413
—, —, potassium silicates for, 1,286,513; 1,494,029
—, —, potassium sulfate for, 1,300,417; 1,300,418
—, —, process for, 1,126,408; 1,165,154; 1,174,795; 1,222,960; 1,237,197; 1,239,768; 1,256,605; 1,277,773; 1,286,513; 1,310,413; 1,323,764; 1,359,011; 1,494,029
—, —, rock for, 1,165,154
—, —, sericite for, 1,310,413
—, —, shale for, 1,165,154
—, —, silicates for, 1,277,773; 1,494,029
—, —, silicon tetrafluoride for, 1,174,795
—, —, slate for, 1,310,413
—, —, sludge sulfonic acid for, 1,286,513
—, —, sodium chloride for, 1,222,960
—, —, strontium oxide for, 1,126,408
—, —, sulfur dioxide for, 1,256,605
—, —, sulfuric acid for, 1,126,408; 1,165,154; 1,174,795; 1,222,960; 1,237,197; 1,239,768; 1,277,773; 1,286,513; 1,310,413; 1,322,900; 1,494,029
—, —, sulfuric acid by-product, 1,314,280
—, —, titanium dioxide for, 1,126,408
—, —, zirconium oxide for, 1,126,408
—, masonry, waterproofing of using, 1,390,236
—, methyl cellulose, composition of and, 1,505,044
—, paper, coating for, made with, 1,505,044
—, paper filler made with, 1,261,135
—, photography, colored, process for, using, 1,196,080; 1,516,824
—, plastic made with, 1,190,815; 1,505,044
—, potassium aluminum sulfate made with, 1,254,229
—, potassium sulfate made with, 1,195,655; 1,300,417; 1,300,418
—, quartz, etching of using, 1,482,793
—, sand, etching of using, 1,482,793
—, satin white made with, 1,261,135
—, silica, etching of using, 1,482,793
—, silicon carbide, etching of using, 1,482,793
Aluminum potassium sulfate, silk, artificial, made with, 1,505,044
—, silk stockings treated with, 1,500,026
—, size made with, 1,289,053
—, sizing made with, 1,505,044
—, stone, artificial, made with, 1,256,324
—, stucco, waterproofing of using, 1,390,236
—, sulfur made with, 1,195,655
—, sulfur dioxide made with, 1,300,417; 1,300,418
—, sulfur oxide from, 1,406,890
—, sulfur trioxide made with, 1,300,417; 1,300,418
—, sulfuric acid made with, 1,300,417; 1,300,418; 1,415,308
—, tanning with, 1,191,527; 1,427,221
—, tanning compound contg., 1,210,968; 1,376,805
—, tanning process using, 1,415,671; 1,421,723; 1,427,221
—, textile, coating for, made with, 1,505,044
—, water, purification of using, 1,158,225
—, waterproofing contg., 1,256,324
—, waterproofing composition contg., 1,390,236
—, waterproofing process using, 1,390,236
—, *see also Alum, potassium; Alunite; Kalinite (basic), see Alunite*
Aluminum powder, airplane dope made with, 1,521,055; 1,521,056
—, aluminum, copper coated with, made with, 1,155,974
—, —, iron coated with, made with, 1,155,974
—, aluminum ware, decorating of using, 1,243,362
—, automobile radiators repaired with, 1,340,655
—, ball, billiard, made with, 1,160,362; 1,160,365
—, blasting cartridge made with, 1,157,270
—, building material made with, 1,357,375
—, button made with, 1,160,362; 1,160,365
—, cardboard made with, 1,160,362; 1,160,365
—, celluloid substitute made with, 1,160,362; 1,160,365
—, cement contg., 1,269,116
—, copper, aluminum coated, made with, 1,155,974
—, enamelware, decorating of using, 1,243,362
—, explosive made with, 1,276,537; 1,334,303
—, fabric, coated, made with, 1,210,375
—, fabric covering, 1,124,087
—, film, photographic, motion picture, printing titles on, with, 1,300,178
—, furniture made with, 1,160,362; 1,160,365
—, gas mantle made with, 1,123,869
—, gold leaf, imitation, made with, 1,160,979
—, iron, aluminum coated, made with, 1,155,974
—, insulation, electric, made with, 1,493,062
—, iron, aluminum coated, made with, 1,155,974
—, knife handle made with, 1,160,362; 1,160,365
—, leather, artificial, made with, 1,493,062
—, luting composition contg., 1,140,760
—, mfr. of, apparatus for, 1,245,328; 1,510,071
—, —, carbon dioxide for, 1,513,280
—, —, carbon monoxide for, 1,513,280
—, —, hydrocarbon for, 1,513,280
—, —, nitrogen for, 1,513,280
—, —, process for, 1,245,328; 1,513,280
—, metal leaf made with, 1,160,979
—, molded article made with, 1,160,362; 1,160,365

Aluminum powder, motion picture screen made with, 1,149,940
—, paper made with, 1,160,362; 1,160,365
—, pipe stem made with, 1,160,362; 1,160,365
—, plastic made with, 1,160,362; 1,160,365
—, pottery, decorating of using, 1,243,362
—, printer blanket made with, 1,210,375
—, printing plate made with, 1,177,635
—, protecting coatings of, beeswax in composition of, 1,181,889
—, —, benzene in composition for, 1,181,889
—, —, benzine in composition for, 1,181,889
—, —, carnauba wax in composition for, 1,181,889
—, —, olive oil in composition for, 1,181,889
—, —, resin in composition for, 1,181,889
—, —, turpentine in composition for, 1,181,889
—, —, wax in composition for, 1,181,889
—, pulp-board made with, 1,160,362; 1,160,365
—, rubber, coating of with, process for, 1,259,508
—, rubber article made with, 1,484,919; 1,493,062
—, rubber substitute made with, 1,160,362; 1,160,365
—, screen, motion-picture, made with, 1,266,778
—, shellac substitute made with, 1,160,362; 1,160,365
—, sparkler made with, 1,174,321
—, toy balloon made with, 1,484,919
—, transfer metallic product made with, 1,444,345
—, trunks made with, 1,160,362; 1,160,365
—, umbrella handle made with, 1,160,362; 1,160,365
—, wall covering made with, 1,209,342
Aluminum pyrophosphate, chalcopyrite, flotation of using, 1,488,745
—, flotation of minerals with, 1,425,185
—, flotation of ores with, 1,425,186
—, flotation process, using, 1,488,745
—, formation of, 1,427,221
—, tanning process using, 1,427,221
Aluminum-pyrophosphoric acid, mfr. of, process for, 1,323,878
Aluminum residue, aluminum nitride made with, 1,415,036
Aluminum resinate, cellulose nitrate, coating of for, 1,251,862
—, cement, dental, contg., 1,325,552
—, coating composition contg., 1,428,272
—, counter board contg., 1,345,317
—, dammar, coating of for, 1,251,862
—, formation of, 1,345,317; 1,345,476
—, fused, paper pulp article waterproofed with, 1,456,370
—, melting point of, 1,456,370
—, paint contg., 1,410,790
—, paper sized with, 1,444,956
—, paper, sizing of, using, 1,512,212; 1,512,213
—, —, waterproofed, with, 1,345,476
—, —, wrapping, made with, 1,317,618
—, paper filler contg., 1,424,306
—, paper product made with, 1,317,618
—, paper pulp article waterproofed with, 1,456,370
—, pontianak, coating of for, 1,251,862
—, printing ink contg., 1,410,572
Aluminum resinate, rosin, coating of for, 1,251,862
—, rubber substitute made with, 1,251,862
—, silk, artificial, contg., 1,398,525
—, —, —, cellulose nitrate, made with, 1,398,525
—, —, —, viscose, made with, 1,398,525
—, viscose solution, coating of for, 1,251,862
—, waterproofing reagent contg., 1,432,833
Aluminum salicylate (basic), mfr. of, 1,447,501
—, (neutral), mfr. of, 1,447,501
Aluminum salt, adhesive made with, 1,284,495
—, adhesive, fireproof, made with, 1,248,092
—, alkali aluminum fluoride made with, 1,517,686
—, aluminum, coating of, treatment of surface before using, 1,144,000
—, aluminum alloy, coating of, treatment of surface before using, 1,144,000
—, aluminum linoleate made with, 1,131,578
—, aluminum oleate made with, 1,519,803
—, aluminum potassium fluoride made with, 1,517,686
—, aluminum soap made with, 1,475,804
—, aluminum sodium fluoride made with, 1,517,686
—, ammonium molybdate made with, 1,250,063
—, ball, billiard, made with, 1,160,362; 1,160,365
—, battery, dry, electrolyte for contg., 1,140,826
—, benzine made with, 1,274,913
—, binder for aluminum oxide, hydrated, using, 1,312,853
—, binder for bauxite, 1,312,853
—, binder for clay, 1,312,853
—, binder for fire brick, 1,312,853
—, binder for flint clay, 1,312,853
—, building material, waterproofing of, using, 1,177,156
—, button made with, 1,160,362; 1,160,365
—, calcimine made with, 1,244,033
—, cardboard made with, 1,160,362; 1,160,365
—, catalyst, acetaldehyde made with, 1,355,299
—, —, ester gum made with, 1,242,161
—, —, hydrogenation, made with, 1,172,062; 1,238,774
—, —, nickel as, made with, 1,172,062
—, —, paint made with, 1,242,161
—, —, varnish made with, 1,242,161
—, catalyst promoter, ammonia made with, 1,148,570; 1,152,930
—, celluloid substitute made with, 1,160,362; 1,160,365
—, cement made with, 1,220,735
—, cement, Portland, made with, 1,220,735
—, clay weather-proofed with, 1,421,888
—, coating composition made with, 1,189,551
—, colloidal solution made using, 1,189,696
—, color lake made with, 1,157,525
—, complex, Japanese lacquer dried with, 1,429,542
—, concrete, coating composition for, made with, 1,189,551
—, condenser, electrolytic, made with, 1,412,513
—, cotton bales treated with, 1,455,749
—, cyanamide granulated using, 1,495,551
—, detergent made with, 1,395,902
—, egg, preserving of using, 1,475,804
—, enamel, opaque, made with, 1,129,300

Aluminum salt, enamel, white, made with, 1,129,300
—, fabric, stiffener for, made with, 1,517,520
—, fabric dyed with, 1,306,213
—, fat, saponification of, compound for, made with, 1,170,468
—, felt, stiffener for, made with, 1,517,520
—, fire extinguisher made with, 1,248,092
—, fire extinguishing composition contg., 1,411,301
—, fireproofing using, 1,216,729; 1,248,092
—, formaldehyde-sulfurous acid, aluminum salt of, made with, 1,149,712
—, formation from leucite, 1,443,674
—, furniture made with, 1,160,362; 1,160,365
—, gasolene made with, 1,274,912; 1,274,913
—, gelatin, colloidal, made with, 1,392,849
—, —, insoluble, made using, 1,392,849
—, glue, vegetable, made with, 1,357,310
—, glycerol made with, 1,170,468
—, glyoxylic acid made with, 1,227,706
—, hemp, imitation, weighted with, 1,351,385
—, hides tanned with, 1,367,054
—, hydrocarbon made with, 1,274,913
—, hydrocyanic acid made with, 1,497,690
—, hydrogenation, catalyst for, made with, 1,172,062; 1,238,774
—, ink, lithographic, made with, 1,131,578
—, —, printing, made with, 1,157,525
—, insulation, electric, made with, 1,131,578
—, iron(ous) vanadate made with, 1,129,253
—, iron(ous) vanadate, phosphorus removed from using, 1,129,253
—, iron vanadium oxide made with, 1,129,253
—, kelp ash contg., 1,290,002
—, knife handle made with, 1,160,362; 1,160,365
—, lake made with, 1,445,331
—, lead grid, storage battery, coated with, 1,304,852
—, leather-board, waterproof, made with, 1,142,953
—, leather substitute made with, 1,287,387
—, lightning arrester, electrolytic, made with, 1,412,513
—, lime, hydraulic, made with, 1,220,735
—, lubricant made with, 1,395,902
—, mfr. of, alkali hydroxide for, 1,196,734
—, —, aluminum minerals for, 1,170,418
—, —, aluminum silicates for, 1,196,734
—, —, alunite for, 1,240,570
—, —, calcium hydroxide for, 1,196,734
—, —, calcium oxide for, 1,196,734; 1,240,570
—, —, clay for, 1,170,418
—, —, earth for, 1,170,418
—, —, feldspar for, 1,196,734
—, —, gypsum for, 1,170,418
—, —, hydrochloric acid for, 1,222,960
—, —, kaolin for, 1,170,418
—, —, leucite for, 1,196,734
—, —, lime for, 1,222,960
—, —, limestone for, 1,170,418; 1,222,960
—, —, microcline for, 1,196,734
—, —, muscovite for, 1,196,734; 1,222,960
—, —, orthoclase for, 1,196,734
—, —, potassium silicates for, 1,196,734
—, —, process for, 1,170,418; 1,196,734; 1,222,960; 1,240,570; 1,391,172
Aluminum salt, mfr. of, rock for, 1,170,418
—, —, shale for, 1,170,418
—, —, sodium chloride for, 1,222,960
—, —, sulfuric acid for, 1,170,418; 1,196,734; 1,222,960
—, molded article made with, 1,160,362; 1,160,365
—, molybdenum compound made with, 1,250,063
—, nickel, catalyst, made with, 1,172,062
—, nitrates made with, 1,485,706
—, nitrogen oxides made with, 1,485,706
—, oak, red, fireproofing of using, 1,216,729
—, oil, saponification of, compound for, made with, 1,170,468
—, —, water, boiler feed, removal from of, using, 1,243,191
—, paint made with, 1,131,578; 1,157,525
—, paint, fireproof, made with, 1,248,092
—, paper made with, 1,160,362; 1,160,365; 1,166,848
—, paper, fireproof sizing for, made with, 1,248,092
—, —, sizing of, made with, 1,211,288; 1,229,924
—, —, stiffener for, made with, 1,517,520
—, petroleum cracked with, 1,274,912
—, phenol aldehyde condensate made with, 1,187,229
—, phonograph record made with, 1,202,638
—, phosphoric acid, treatment of with, 1,269,080
—, phosphoric acid impurity, 1,493,099; 1,493,100
—, phosphorus removed from vanadium solutions by, 1,421,191
—, photographic paper prepared from, 1,444,469
—, pigment made with, 1,157,525
—, pine, fireproofing of, using, 1,216,729
—, pipe stem made with, 1,160,362; 1,160,365
—, plaster, waterproofing of, using, 1,177,156
—, plastic made with, 1,160,362; 1,160,365
—, potassium bichromate, recovery of using, 1,201,392
—, pulp sized with, 1,229,924
—, pulp-board made with, 1,160,362; 1,160,365
—, rectifier, electrolytic, made with, 1,412,513
—, removal from vanadium compounds, 1,430,864
—, resistance, electric, made with, 1,499,693
—, rubber substitute made with, 1,160,362; 1,160,365
—, soap, aluminum, made with, 1,131,578
—, shellac substitute made with, 1,160,362; 1,160,365
—, shoe stiffener made with, 1,517,520
—, silver, gelatin emulsions of, recovery from of, using, 1,234,391
—, —, photographic emulsions of, recovery from of, using, 1,234,391
—, silver bromide, gelatin emulsions of, recovery from of, using, 1,234,391
—, —, photographic emulsions of, recovery from of, using, 1,234,391
—, silver chloride, gelatin emulsions of, recovery from of, using, 1,234,391
—, —, photographic emulsion of, recovery from of, using, 1,234,391
—, size made with, 1,229,924
—, sizing solution contg., 1,464,310

Aluminum salt, sludge sulfonic acid, treatment of with, 1,211,721
—, sodium bichromate, recovery of using, 1,201,392
—, sodium molybdate made with, 1,250,063
—, starch, fireproof, made with, 1,248,092
—, stone, waterproofing of, using, 1,177,156
—, sulfonated mineral oil, mfr. of, 1,301,662; 1,301,663
—, tanning with, 1,404,957; 1,415,671; 1,421,723
—, tanning compound made with, 1,269,287
—, tanning process using, 1,364,316; 1,427,221
—, titanium pigment made with, 1,396,924
—, toluene made with, 1,274,913
—, trunk made with, 1,160,362; 1,160,365
—, umbrella handle made with, 1,160,362; 1,160,365
—, vanadium oxide made with, 1,129,253
—, varnish made with, 1,131,578
—, varnish, fireproof, made with, 1,248,092
—, water, boiler feed, oil, removal of from, using, 1,243,191
—, water contg., treatment of, process for, 1,251,564
—, water purified using, 1,513,566
—, wood, fireproofing of, using, 1,216,729
—, —, preserving of using, 1,248,022
—, wood pulp made with, 1,166,848
—, zeolite, artificial, made with, 1,193,794; 1,263,707; 1,499,492; 1,515,007
—, zinc removal from of, 1,154,602
Aluminum salt solutions, iron precipitation from, 1,444,160
Aluminum scrap, ammonia made with, 1,502,129
—, ammonium sulfate made with, 1,502,129
—, melting of, aluminum nitride formed using, 1,502,129
—, —, calcium chloride for, 1,502,129
—, —, cryolite for, 1,502,129
—, —, process for, 1,502,129
—, —, salt for, 1,502,129
—, —, sodium chloride for, 1,502,129
—, refining of, 1,403,349
Aluminum screenings, ammonia made with, 1,156,606
—, ammonium salts made with, 1,156,606
—, —, copper made with, 1,156,606
—, copper salts made with, 1,156,606
—, copper sulfate made with, 1,156,606
—, sodium aluminate made with, 1,156,606
—, zinc salts made with, 1,156,606
—, zinc sulfate made with, 1,156,606
—, *see also Aluminum skimmings*
Aluminum selenate, asphalt tempered with, 1,328,310; 1,372,467
—, road paving made with, 1,328,310
Aluminum shavings, gold produced using, 1,479,542
—, mercury produced using, 1,479,542
—, silver produced using, 1,479,542
Aluminum sheet metal shapes, mfr. of, process for, 1,258,854
Aluminum silicates, abrasive made with, 1,239,984
—, abrasive, etching of using, 1,482,793
—, acetylene made with, 1,129,505; 1,129,721
—, adhesive made with, 1,498,856
Aluminum silicates, alkali aluminate made with, 1,271,192
—, alkali compounds, removal of from, process for, 1,251,057
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, alkali oxalate made with, 1,281,118
—, alum made with, 1,251,057; 1,254,229
—, alumina made with, 1,148,092
—, aluminum made with, 1,160,431; 1,196,734; 1,238,604; 1,251,058; 1,506,104; 1,519,648
—, aluminum, sheet, coating for, made with, 1,221,561
—, aluminum carbide (Al_2C_3), made with, 1,129,505; 1,129,721
—, —, (Al_4C_3), made with, 1,129,505; 1,129,721
—, aluminum carbonitride ($Al_2C_3N_6$), made with, 1,129,224; 1,129,505; 1,129,721
—, aluminum chloride made with, 1,238,604; 1,360,312; 1,392,043; 1,392,044; 1,478,822; 1,489,021; 1,506,104; 1,507,709; 1,508,451
—, aluminum chloride from carbonyl chloride and, 1,360,312
—, aluminum compound made with, 1,249,125
—, aluminum fluoride made with, 1,160,431; 1,237,488; 1,403,183; 1,480,928
—, aluminum hydroxide made with, 1,277,503; 1,324,318
—, aluminum nitride (Al_2N_3), made with, 1,129,505; 1,129,721
—, aluminum oxide made with, 1,129,224; 1,129,505; 1,129,721; 1,132,737; 1,239,984; 1,245,383; 1,249,125; 1,251,057; 1,251,058; 1,277,503; 1,290,269; 1,333,020; 1,478,822; 1,506,104
—, aluminum oxide from, process for, 1,312,053
—, aluminum salts made with, 1,196,734
—, aluminum silicon nitride prepared from, 1,379,668
—, aluminum sodium chloride made with, 1,506,104
—, aluminum sulfate made with, 1,132,737; 1,160,431; 1,251,057; 1,251,058; 1,286,513; 1,300,417; 1,300,418; 1,480,928
—, aluminum sulfate, action of on, 1,312,853
—, aluminum sulfite made with, 1,148,092
—, ammonia made with, 1,129,224; 1,129.505; 1,129,721
—, ammonium hydroxide made with, 1,465,310; 1,480,291
—, arc-welding composition made with, 1,467,825
—, artificial, mfr. of, 1,362,274
—, battery, storage, separator for, made with, 1,200,345
—, benzine, refining of using, 1,515,733
—, benzoyl-ecgonine made with, 1,218,536
—, binder made with, 1,498,856
—, biotite constituent, 1,430.085
—, bole-armen constituent, 1,422,114
—, brick, magnesia, contg., 1,307,197
—, brick, slag, made with, 1,123,841
—, building material made with, 1,505,206
—, caffein, coffee free from, made with, 1,250,331
—, calcimine made with, 1,308,136
—, calcium compounds, removal of from, process for, 1,251,057; 1,251,058

Aluminum silicates, calcium compounds, removal of from, sulfuric acid for, 1,251,058
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, calcium silicate made with, 1,277,503
—, calcium sulfate made with, 1,480,928
—, calcium sulfide made with, 1,277,503
—, car body, coating for, made with, 1,221,561; 1,221,562
—, carbon, decolorizing, made with, 1,510,284
—, carbon dioxide made with, 1,360,312
—, carbon monoxide made with, 1,129,505; 1,129,721
—, carbon tetrachloride made with, 1,506,104
—, carborundum bonded with, 1,376,091
—, catalyst, hydrocarbon cracked using, 1,229,098
—, —, hydrogenation, made with, 1,238,774
—, cement contg., 1,456,667
—, —, defects of, 1,296,467
—, cement, hydraulic, made with, 1,123,841
—, ceramic article contg., 1,440,766
—, chlorine made with, 1,478,822
—, cocaine made with, 1,218,536
—, cocaine, compound of and, 1,250,331
—, cocoa extract made with, 1,218,536; 1,235,450
—, coffee, caffein-free, made with, 1,250,331
—, colloidal, liquid, purification of using, 1,170,868
—, —, oil, mineral, purification of using, 1,170,868
—, —, —, vegetable, purification of using, 1,170,868
—, —, sugar solutions, purification of using, 1,170,868
—, —, water, purification of using, 1,170,868
—, concrete contg., 1,396,546
—, concrete, filler for, made with, 1,123,841
—, —, waterproofing of, using, 1,221,445
—, conduit, electric, made with, 1,505,206
—, container made with, 1,146,787
—, copper sheet, coating for, made with 1,221,561
—, core made with, 1,498,856
—, corundum, etching of using, 1,482,793
—, dental cement contg., 1,408,960
—, depilatory contg., 1,379,855
—, detergent made with, 1,395,902
—, α-dichlor-ethane made with, 1,506,104
—, ecgonine made with, 1,218,536
—, emery, etching of using, 1,482,793
—, emetin, compound of and, 1,250,331
—, electrode, welding, made with, 1,241,899
—, enamel made with, 1,221,561; 1,221,562
—, enamel, opaque, made with, 1,314,831
—, ferro-silicon made with, 1,239,984
—, fertilizer made with, 1,129,224; 1,135,387; 1,232,553
—, flux, use of as, 1,327,737
—, formation of, 1,332,114
—, fruit juices treated with, 1,458,427
—, fuel briquet made with, 1,498,856
—, garnet, etching of using, 1,482,793
—, gasolene, refining of using, 1,515,733
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Aluminum silicates, glower made with, 1,135,663
—, gold compounds, removal of from, process for, 1,251,057
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, hydrated, catalyst in acetylene product mfr., 1,421,743
—, —, ipecac alkaloids combined with, 1,334,463
—, —, water, softening material contg., 1,388,133
—, hydrocarbon made with, 1,506,104
—, hydrocarbon, refining of using, 1,515,733
—, hydrochloric acid made with, 1,489,021
—, hydrogen dioxide, stabilization of with, 1,275,765
—, hydrogenation, catalyst for, made with, 1,238,774
—, hydrous, mfr. of, calcium carbonate for, 1,256,295
—, —, —, calcium hydroxide for, 1,256,295
—, —, —, feldspar for, 1,256,295
—, —, —, lime, cull, for, 1,256,295
—, —, —, process for, 1,256,295
—, insulating composition contg., 1,456,667
—, insulation, heat, made with, 1,456,667
—, insulator made with, 1,225,147
—, iron, sheet, coating for, made with, 1,221,561
—, iron compounds made with, 1,148,092
—, iron compounds, removal of from, process for, 1,251,057; 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, iron ore, briqueting of, using, 1,233,384
—, isolation from labradorite, 1,333,020
—, kerosene, refining of using, 1,515,733
—, lamp, electric, made with, 1,135,663
—, leather, artificial, dyeing of using, 1,186,052
—, leather resurfacing composition contg., 1,402,976
—, leather treated with compound contg., 1,265,648
—, liquid, purification of, using, 1,212,648
—, —, treatment of using, 1,244,012
—, lubricant made with, 1,395,902
—, magnesia article, bonded, made with, 1,394,442
—, magnesium aluminate made with, 1,394,442
—, magnesium compounds, removal of from, process for, 1,251,057; 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, "Meresco" contg., 1,217,331
—, mineral matter made with, 1,169,506
—, mineral wool made with, 1,123,841
—, mold contg., cobalt and, 1,454,065; 1,454,067
—, —, nickel and, 1,454,065; 1,454,067
—, mold making material contg., 1,401,215
—, mold mixture contg., 1,457,375
—, naphtha, refining of using, 1,515,733
—, nicotine, compound of and, 1,250,331
—, —, tobacco free from, made with, 1,250,331
—, nitrogen fixation with, 1,465,310
—, nitrogen fixed by, 1,379,668
—, nitrogen oxides made with, 1,486,990
—, ore contg., 1,377,822
—, paint contg., 1,315,748

Aluminum silicates, paper, coated, made with, 1,230,096; 1,480,928
—, —, sizing for, made with, 1,480,928
—, paper de-inked with, 1,421,195
—, paper mill waste water, compound for, purification of, made with, 1,133,446
—, paper stock, ink removed from using, 1,138,085
—, petroleum products, refining of using, 1,515,733
—, pipe made with, 1,505,206
—, plastic made with, 1,146,787; 1,505,206
—, potassium made with, 1,196,734
—, potassium aluminate made with, 1,271,192
—, potassium aluminum sulfate made with, 1,286,513
—, potassium carbide (K_2C), made with, 1,129,505; 1,129,721
—, —, (K_2C_3), made with, 1,129,505; 1,129,721
—, potassium carbonate made with, 1,123,841; 1,129,224; 1,129,505; 1,129,721; 1,478,822
—, potassium carbonitride (K_2CN_2), made with, 1,129,224; 1,129,505; 1,129,721
—, potassium chloride made with, 1,197,556
—, potassium compound made with, 1,123,841; 1,148,092; 1,239,984
—, potassium compounds, removal of from, process for, 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, potassium fluosilicate made with, 1,237,488
—, potassium nitride (K_3N), made with, 1,129,505; 1,129,721
—, potassium salts made with, 1,196,734
—, potassium sulfate made with, 1,286,513
—, potassium sulfate extracted from, 1,300,417; 1,300,418
—, precipitating of, oil emulsion for, 1,425,187
—, putty or paint contg., 1,392,074
—, quartz, etching of using, 1,482,793
—, quinine, compound of and, 1,250,331
—, refractory made with, 1,362,274; 1,376,091; 1,394,442; 1,412,916; 1,520,487
—, refractory of zirconium oxide and, 1,362,274
—, road paving made with, 1,236,875; 1,498,856
—, roofing, silicate, made with, 1,123,841
—, sand etching of using, 1,482,793
—, silica made with, 1,148,092
—, silica, etching of using, 1,482,793
—, silicic acid made with, 1,324,318; 1,480,928
—, silicon made with, 1,238,604
—, —, made with, 1,129,721
—, silicon carbides, etching of using, 1,482,793
—, silicon dioxide made with, 1,129,505; 1,129,721; 1,249,125; 1,251,057; 1,254,229; 1,360,312; 1,489,021
—, silicon sulfide made with, 1,245,383
—, silicon tetrachloride made with, 1,238,604; 1,489,021
—, silver compounds, removal of from, process for, 1,251,057
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, slaughter house waste water, compound for purification of, made with, 1,133,446
—, sodium aluminate made with, 1,271,192; 1,478,822
Aluminum silicates, sodium aluminum sulfate made with, 1,254,229
—, sodium carbonate made with, 1,277,503; 1,478,822
—, sodium compounds made with, 1,482,092
—, sodium compounds, removal of from, process for, 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, sodium oxalate made with, 1,281,118
—, sodium perborate, stabilization of with, 1,275,765
—, sodium silicate made with, 1,312,053; 1,478,822; 1,507,709
—, sodium sulfate made with, 1,254,229
—, spinel, artificial, made with, 1,394,442
—, stabilization of perborate using, 1,275,765
—, steel, sheet, coating for, made with, 1,221,561
—, stone, artificial, contg., 1,456,667
—, strychnine, compound of and, 1,250,331
—, sugar solution, iron removed from using, 1,150,194
—, —, purification of using, 1,150,194; 1,212,648
—, —, treatment of using, 1,244,012
—, sulfur dioxide made with, 1,249,125; 1,489,021
—, sulfuric acid made with, 1,239,984
—, "sweet water," iron removed from using, 1,150,194
—, —, purification of using, 1,150,194
—, tannery waste water, compound for purification of made with, 1,133,446
—, titanium compounds, removal of from, process for, 1,251,057; 1,251,058
—, —, —, sulfuric acid for, 1,251,058
—, —, —, tannic acid for, 1,251,057
—, —, —, tannin for, 1,251,057
—, tobacco, nicotine-free, made with, 1,250,331
—, treating, ammonium bifluoride for, 1,426,890; 1,426,891
—, vehicle body, coating for, made with, 1,221,561; 1,221,562
—, wall coating made with, 1,217,331
—, washing medium contg., 1,395,902
—, water, compound for purification of made with, 1,133,446
—, —, waste, compound for purification of made with, 1,133,446
—, waterproofing using, 1,221,445
—, water softening compound made with, 1,482,601
—, welding electrode covering contg., 1,441,685
—, wood pulp made with, 1,249,125
—, wool washing waste water, compound for purification of, made with, 1,133,446
—, zeolite, artificial, made with, 1,131,503; 1,207,826
—, *see also Albite; Analcite; Anorthoclase; Bentonite; Clay; Clay, ball; Clay, china; Cornish Stone; Feldspar; Floridine; Fuller's earth; Halloysite; Hauynite; Hornblende; Hyalophone; Kaliophilite; Kaolin; Kaolinite Leuceite; Leverrierite; Microcoline; Montmorillonite; Muscovite; Natrolite; Naphelin syenite; Nephelite; Noselite; Orthoclase; Otaylite; Permutite; Pholerite; Pyrophllite; Sillimanite; Sodalite; Spodumene; Topaz; Zeolite, artificial*
—, (basic), concrete contg., 1,396,546

Aluminum silicate ore, alum made with, 1,212,334
—, alumina made with, 1,212,334
—, aluminum compound made with, 1,249,125
—, aluminum oxide made with, 1,212,334; 1,249,125
—, manganese dioxide made with, 1,212,334
—, nickel made with, 1,212,334
—, silicon dioxide made with, 1,249,125
—, sulfur dioxide made with, 1,249,125
—, wood pulp made with, 1,249,125
Aluminum silicide, explosive contg., 1,310,466
—, formation of, 1,379,668
—, mfr. of, aluminum oxide for, 1,512,271
—, —, bauxite for, 1,512,271
—, —, carbon for, 1,512,271
—, —, process for, 1,512,271
—, —, silica for, 1,512,271
—, (Al_2Si_3), formation of, aluminum silicide (Al_4Si_3), for, 1,123,585; 1,154,800
—, (Al_4Si_3), aluminum from, 1,123,585; 1,154,800
—, —, aluminum silicide (Al_2Si_3), from 1,123,585; 1,154,800
—, —, aluminum silicon nitride ($Al_4N_4.Si_3N_4$), made with, 1,123,585; 1,154,800
—, —, prodn. of, aluminum oxide for, 1,123,585; 1,154,800
—, —, —, process for, 1,123,585; 1,154,800
—, —, —, silicon carbide (SiC_2), for, 1,123,585 1,154,800
Aluminum silico-fluoride, see Aluminum fluo-silicate
Aluminum silicon alloy, explosive contg., 1,410,868
—, purifying of, fluoride for, 1,387,900
Aluminum silicon carbide, formation of, feldspar for, 1,445,645
Aluminum silicon nitride, ammonia made with, 1,379,668
—, preparation of, 1,379,668
—, ($Al_2N_2.Si_3N_4$), formation of, process for, 1,123,585; 1,154,800
—, ($Al_4N_4Si_3N_4$), mfr. of, aluminum oxide for, 1,123,585; 1,154,800
—, —, —, aluminum silicide (Al_4Si_3), for, 1,123,585; 1,154,800
—, —, —, carbon for, 1,123,585; 1,154,800
—, —, —, feldspar for, 1,123,585; 1,154,800
—, —, —, nitrogen for, 1,123,585; 1,154,800
—, —, —, phosphate rock for, 1,123,585; 1,154,800
—, —, —, process for, 1,123,585; 1,154,800
—, —, —, producer gas for, 1,123,585; 1,154,800
—, —, —, silicon carbide (SiC_2), for, 1,123,585; 1,154,800
—, —, —, silicon dioxide for, 1,123,585; 1,154,800
Aluminum silicon oxycarbide, formation of, feldspar for, 1,445,645
Aluminum skimmings, aluminum compound made with, 1,229,611
—, aluminum oxide made with, 1,228,119; 1,262,062
—, aluminum sulfate made with, 1,176,292; 1,229,611; 1,262,063
—, ammonia made with, 1,156,606; 1,229,611
—, ammonia salts made with, 1,156,606
—, composition of, 1,262,062; 1,262,063
—, copper made with, 1,156,606
Aluminum skimmings, copper compound made with, 1,228,119; 1,229,611
—, copper salts made with, 1,156,606
—, copper sulfate made with, 1,156,606
—, lead compound made with, 1,228,119
—, sodium aluminate made with, 1,156,606
—, zinc compound made with, 1,228,119
—, zinc salts made with, 1,156,606
—, zinc sulfate made with, 1,156,606
Aluminum slags, ammonia made with, 1,156,606
—, ammonium salts made with, 1,156,606
—, copper made with, 1,156,606
—, copper salts made with, 1,156,606
—, copper sulfate made with, 1,156,606
—, sodium aluminate made with, 1,156,606
—, zinc salts made with, 1,156,606
—, zinc sulfate made with, 1,156,606
—, *see also Aluminum skimmings*
Aluminum sludge, fat, hydrolysis of, using, 1,495,891
Aluminum sludge sulfonate, glycerol made with, 1,495,891
—, mfr. of, aluminum sulfate for, 1,271,387; 1,438,101
—, —, ammonium sludge sulfonate for, 1,271,387
—, —, lithium sludge sulfonate for, 1,271,387
—, —, potassium sludge sulfonate for, 1,271,387
—, —, process for, 1,271,387; 1,301,662; 1,301,663; 1,303,779; 1,330,624; 1,438,101
—, —, sodium sludge sulfonate for, 1,271,387
—, —, sludge sulfonic acid for, 1,438,101
—, sludge sulfonic acid purified using, 1,495,891
—, solvent for acetone as, 1,495,891
—, —, ethyl alcohol as, 1,495,891
—, —, methyl alcohol as, 1,495,891
Aluminum soap, coating composition contg., 1,428,272
—, colloidal, solution of, preparing, 1,428,258
—, egg, preserving of using, 1,475,804
—, emulsion stabilized with, 1,429,430
—, fuel briquet made with, 1,138,016
—, mfr. of, aluminum salt for, 1,475,804
—, —, potassium aluminum sulfate for, 1,475,804
—, —, soap for, 1,475,804
—, paint vehicle contg., 1,428,273
—, paper filler contg., 1,424,306
—, paper waterproofed with, 1,370,650
—, printing ink contg., 1,410,572
—, solvent for, chloroform as, 1,475,804
—, —, ether as, 1,475,804
—, —, gasolene as, 1,475,804
—, stencil, typewriter, made with, 1,316,067
—, waterproofing contg., 1,400,579; 1,428,258
—, waterproofing composition contg., 1,460,251
—, *see also Soap, aluminum*
Aluminum sodium alginate, cardboard coated with, 1,162,926
—, fabric coated with, 1,162,926
—, leather coated with, 1,162,926
—, mfr. of, process for, 1,162,926
—, paper coated with, 1,162,926
—, pasteboard coated with, 1,162,926
—, textile coated with, 1,162,926
Aluminum sodium carbonate, fabric, fireproofing of, using, 1,225,414
—, fireproofing using, 1,225,414

Aluminum sodium chloride catalyst in oil cracking, 1,424,574
—, flux for aluminum coating, 1,378,052
—, mfr. of, aluminum silicate for, 1,506,104
—, —, apparatus for, 1,506,104
—, —, bituminous shale for, 1,506,104
—, —, carbon for, 1,506,104
—, —, chlorine for, 1,506,104
—, —, clay for, 1,506,104
—, —, coal, slaty, for, 1,506,104
—, —, lignite for, 1,506,104
—, —, oil shale for, 1,506,104
—, —, process for, 1,506,104
—, —, shale for, 1,506,104
—, —, sodium chloride for, 1,506,104
—, *see also Sodium aluminum chloride*
Aluminum sodium fluoride, aluminum, steel coated with, made with, 1,488,553
—, aluminum-producing electrolyte contg., 1,464,625
—, cement, dental, made with, 1,172,723
—, formation of, 1,464,625
—, lamp, electric, tungsten filament, made with, 1,188,196
—, mfr. of, acid for, 1,517,686
—, —, alkali chloride for, 1,517,686
—, —, alkali fluoride for, 1,517,686
—, —, alkali sulfate for, 1,517,686
—, —, aluminum salts for, 1,517,686
—, —, argil for, 1,517,686
—, —, hydrochloric acid for, 1,517,686
—, —, hydrofluoric acid for, 1,517,686
—, —, hydrogen sulfide for, 1,517,686
—, —, potter's earth for, 1,517,686
—, —, process for, 1,517,686
—, —, sodium chloride for, 1,517,686
—, —, sodium fluoride for, 1,517,686
—, —, sulfuric acid for, 1,517,686
—, mortar-hardening material made with, 1,343,929
—, steel, aluminum coated, made with, 1,488,553
—, *see also Chiolite; Cryolite; Cryolite, synthetic; Kryolite*
Aluminum sodium silicate, alkali aluminate made with, 1,508,777
—, alumina made with, 1,508,777
—, benzine refining of using, 1,515,733
—, fertilizer made with, 1,508,777
—, formation of, 1,404,083; 1,410,642; 1,422,004
—, gasolene, refining of using, 1,515,733
—, glower made with, 1,135,663
—, hydrocarbon, refining of using, 1,515,733
—, kerosene, refining of using, 1,515,733
—, lamp, electric, made with, 1,135,663
—, mfr. of, alkali chloride for, 1,123,693
—, —, apparatus for, 1,123,693
—, —, bauxite for, 1,123,693
—, —, clay for, 1,123,693
—, —, feldspar for, 1,123,693
—, —, feldspar, potash, for, 1,123,693
—, —, process for, 1,123,693
—, —, sodium chloride for, 1,123,693
—, naphtha, refining of using, 1,515,733
—, petroleum product, refining of using, 1,515,733
—, water softening material contg., 1,388,133
—, *see also Nephelite; Sodalite*
Aluminum sodium sulfate, adhesive, fireproof, made with, 1,248,092
—, aluminum linoleate made with, 1,131,578
—, ammonium aluminum sulfate made with, 1,254,229
—, asphalt, action on of, 1,252,433
—, baking powder made with, 1,274,334
—, building material made with, 1,256,324
—, cement contg., 1,334,940
—, fertilizer contg., 1,289,789
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,248,092
—, flour, self-raising, made with, 1,244,867
—, gypsum, waterproofing of, with, 1,256,324
—, ink, lithographic, made with, 1,131,578
—, insulation, electric, made with, 1,131,578
—, mfr. of, aluminum silicate for, 1,254,229
—, —, clay for, 1,254,229
—, —, niter cake for, 1,254,229
—, —, process for, 1,254,229
—, motion picture screen made with, 1,166,569
—, paint made with, 1,131,578
—, paint, fireproof, made with 1,248,092
—, paper, fireproof sizing for, made with, 1,248,092
—, petroleum, action on of, 1,252,433
—, pitch, action on of, 1,252,433
—, road paving made with, 1,252,433
—, soap, aluminum, made with, 1,131,578
—, sodium sulfate, separation from of, 1,254,229
—, starch, fireproof, made with, 1,248,092
—, stone, artificial, made with, 1,256,324
—, tanning with, 1,191,527; 1,415,671; 1,427,221
—, tanning process using, 1,415,671; 1,427,221
—, tar, action on of, 1,252,433
—, varnish made with, 1,131,578
—, varnish, fireproof, made with, 1,248,092
—, waterproofing contg., 1,256,324
—, *see also Alum*
Aluminum solder, aluminum in, 1,323,520; 1,326,971
—, bismuth in, 1,323,520
—, formula, tin 29 lb., zinc 11 lb., phosphor tin 2 lb., aluminum 2 lb., bismuth 2 grains., 1,323,520
—, —, zinc 16, tin 75, aluminum 8, 1,326,971
—, lead in, 1,208,798; 1,208,799
—, mfr. of, aluminum for, 1,326,971
—, —, borax for, 1,326,971
—, —, boric acid for, 1,326,971
—, —, charcoal for, 1,326,971
—, —, process for, 1,252,010; 1,326,971
—, —, sodium chloride for, 1,326,971
—, —, tin for, 1,326,971
—, —, zinc for, 1,326,971
—, phosphor in, 1,323,520
—, phosphorus in, 1,323,520
—, tin in, 1,208,798; 1,208,799; 1,323,520; 1,326,971
—, zinc in, 1,325,520; 1,326,971
—, *see also Solder, aluminum*
Aluminum solder flux, formula, aluminum chloride 265, zinc chloride 320, borax 2, paraffin 67, tallow 25, sulfur 25, 1,312,154
—, mfr. of, aluminum chloride for, 1,312,154
—, —, borax for, 1,312,154
—, —, paraffin for, 1,312,154

Aluminum solder flux, mfr. of, sulfur for, 1,312,154
—, —, tallow, beef, for, 1,312,154
—, —, zinc chloride for, 1,312,154
Aluminum soldering compound, formula, zinc 49, tin 40, lead 10, white metal 1 (tin 80-90, antimony 5-15, copper 3-10%), 1,344,566
Aluminum soldering flux, mfr. of, citronella oil for, 1,225,764
—, —, oleic acid for, 1,225,764
—, —, process for, 1,225,764
—, —, spirit of ammonia for, 1,225,764
Aluminum solutions, iron removal from, 1,421,804
—, purification of, process for, 1,503,229
Aluminum stearate, anti-dimming composition made with, 1,228,885
—, carbon-paper from, 1,292,404
—, coating composition contg., 1,428,272
—, composition contg., 1,276,507; Re-14,570
—, fat, solvent for, contg., 1,156,119
—, film, motion picture, made with, 1,361,783
—, formation of, 1,385,854
—, gum, solvent for, contg., 1,156,119
—, ink, printing, made with, 1,237,136
—, insulation, electric, made with, 1,280,129
—, mfr. of, process for, 1,292,404
—, oil, solvent for, contg., 1,156,119
—, paint made with, 1,156,119; 1,421,625
—, paint remover made with, 1,156,119
—, paint vehicle contg., 1,428,273
—, paper filler contg., 1,424,306
—, paper waterproofed with, 1,370,650
—, phonograph record made with, 1,276,507; Re-14,570
—, plastic made with, 1,280,129
—, resin, solvent for, contg., 1,156,119
—, rubber substitute made with, 1,280,129
—, screen, motion picture, made with, 1,151,502
—, sizing composition contg., 1,299,663
—, solvent for, 1,397,738; Re-15,465
—, —, carbon tetrachloride as, 1,397,738; Re-15,465
—, —, dichlor-ethylene as, 1,397,738; Re-15,465
—, —, linseed oil as, 1,428,272
—, —, trichlor-ethylene as, 1,397,738; Re-15,465
—, varnish made with, 1,156,119
—, varnish remover contg., 1,156,119
—, waterproofing with, 1,385,854; 1,397,738
—, waterproofing process using, 1,397,738; Re-15,465
—, waterproofing solution contg., 1,397,738; Re-15,465
—, *see also Soap, aluminum*
Aluminum strontium fluoride, enamel made with, 1,518,872
—, glass, opalescent, made with, 1,518,872
—, —, opaque, made with, 1,518,872
Aluminum suboxide, arsenic compounds, marine animal oils, removal from of using, 1,247,516
—, catalyst poisons, marine animal oils, removal from of using, 1,247,516
—, chlorine compounds, marine animal oils, removal from of using, 1,247,516
—, cod oil, catalyst poisons, removal of from using, 1,247,516
Aluminum suboxide, cod oil, hydrogenation of, using, 1,247,516
—, corn oil, hydrogenation of, using, 1,247,516
—, cotton seed oil, hydrogenation of, using, 1,247,516
—, cyanide derivatives, marine animal oils, removal from of, using, 1,247,516
—, fish oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, hydrogenation process using, 1,247,516
—, iodine compounds, marine animal oils, removal from of using, 1,247,516
—, marine animal oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, menhaden oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, oil, vegetable, hydrogenation of, using, 1,247,516
—, phosphorus compounds, marine animal oils, removal from of, using, 1,247,516
—, sulfur compounds, marine animal oils, removal of using, 1,247,516
—, whale oil, catalyst poisons, removal of from using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
Aluminum sulfate, abrasive made with, 1,247,337; 1,444,479
—, abrasive, etching of using, 1,482,793
—, acetic acid, concentration of, using, 1,492,717; 1,492,718
—, acetone, concentration of, using, 1,492,717
—, acid value of, 1,421,436
—, adhesive made with, 1,248,039
—, adhesive, fireproof, made with, 1,248,092
—, airplane dope contg., 1,429,295
—, airplane fabric made with, 1,427,941; 1,429,295
—, airplane fabric fireproofed with, 1,427,941
—, "Alginic acid" made with, 1,259,486
—, alkali aluminum alginate made with, 1,162,926
—, alkali formate, composition of and, 1,493,945
—, alkali iodide made using, 1,249,863
—, alkaloids precipitated by, 1,447,400
—, alum made with, 1,359,011; 1,388,436; 1,415,346
—, alum, potassium, made with, 1,396,675
—, aluminum made with, 1,160,431
—, aluminum, polish for, made with, 1,491,456
—, aluminum acetate made with, 1,265,357
—, aluminum alginate made with, 1,348,459; 1,415,850
—, aluminum borate made with, 1,373,179
—, aluminum carbide made with, 1,270,226
—, aluminum chloride made with, 1,270,226
—, aluminum compound made with, 1,249,125
—, aluminum copper sulfate made with, 1,162,044
—, aluminum fluoride made with, 1,160,431; 1,518,872
—, aluminum fluosilicate made with, 1,357,025; 1,518,872
—, aluminum formate made with, 1,493,945

Aluminum sulfate, aluminum hydroxide made with, 1,336,508; 1,337,191; 1,395,902; 1,434,619; 1,512,897
—, aluminum hydroxide, catalyst, made with, 1,512,897
—, aluminum iodide made with, 1,460,898
—, aluminum linoleate made with, 1,407,952
—, aluminum oleate made with, 1,519,803
—, aluminum oxide made with, 1,132,736; 1,132,737; 1,132,738; 1,171,360; 1,249,125; 1,252,384; 1,282,273; 1,300,417; 1,300,418; 1,489,362; 1,512,897
—, aluminum oxide, carbon, mixture of and, made with, 1,171,360
—, aluminum petroleum sulfonates prepared with, 1,438,101
—, aluminum resinate made with, 1,345,476
—, aluminum salicylate made with, salicylic acid and, 1,447,501
—, aluminum silicate, action on of, 1,312,853
—, aluminum sludge sulfonate made with, 1,271,387; 1,438,101
—, aluminum stearate precipitated on fibers by, 1,385,854
—, aluminum sulfate (basic), $(Al_2(OH)_2(SO_4)_2)$, made with, 1,137,005
—, aluminum sulfide made with, 1,270,226
—, aluminum tungstate made with, 1,292,559
—, ammonia made with, 1,198,965
—, arsenic trisulfide precipitated with, 1,373,179
—, asbestos waterproofing of with, 1,280,954
—, asphalt, action on of, 1,252,433
—, asphalt tempered with, 1,328,310; 1,372,467
—, baking powder made with, 1,274,334
—, balloon fabric made with, 1,427,941
—, bath salts made with, 1,189,653
—, battery, primary, made with, 1,190,880
—, —, storage, made with, 1,190,880; 1,512,485
—, —, —, electrode for, made with, 1,454,078
—, battery electrode prepared with, 1,454,078
—, benzine made with, 1,274,913
—, binder made with, 1,400,164
—, binder for aluminum oxide, hydrated, 1,312,853
—, binder for bauxite, 1,312,853
—, binder for clay, 1,312,853
—, binder for fire brick, 1,312,853
—, binder for flint clay, 1,312,853
—, bleaching compound made with, 1,394,151
—, brake band made with, 1,307,857
—, Brazil wood extract, composition of contg., 1,273,293
—, brick, fire-, made with, 1,244,275
—, brick substitute made with, 1,463,123
—, brine, Searles Lake, treated with, 1,373,179
—, brine treated with, 1,394,978
—, broom-corn treated with, 1,337,306
—, building material made with, 1,256,324; 1,408,760
—, building material composition made with, 1,463,123
—, calcimine made with, 1,244,033
—, calcining of, apparatus for, 1,173,428
—, calcium precipitated by, 1,394,151
—, calcium acetate, purification of, using, 1,213,724
Aluminum sulfate, carbon, aluminum oxide, mixture of and, made with, 1,171,360
—, carbon dioxide made with, 1,171,360
—, cardboard made with, 1,341,991
—, carpet made with, 1,379,703
—, catalyst, aluminum hydroxide as, made with, 1,512,897
—, —, ethyl alcohol made with, 1,234,886
—, —, ethyl lactate made with, 1,160,595
—, —, hydrogenation, made with, 1,172,062; 1,238,774
—, —, nickel as, made with, 1,172,062
—, —, propyl alcohol made with, 1,234,886
—, celluloid substitute made with, 1,264,979
—, cellulose ether, composition of and, 1,505,044
—, cellulose soda liquor and, colloidal solution prepared with, 1,460,012
—, cellulose sulfite liquor and, colloidal solutions prepared with, 1,460,012
—, cement made with, 1,334,940; 1,342,360
—, cement, aromatic, contg., 1,455,598
—, cement substitute made with, 1,463,123
—, clay made with, 1,308,429
—, clay, China, cleaned with, 1,324,958
—, —, —, Mid-Cornwall, cleaned with, 1,324,958
—, —, —, —, treated with, 1,324,958
—, —, —, North America, cleaned with, 1,324,958
—, —, —, —, treated with, 1,324,958
— —, —, North Carolina, cleaned with, 1,324,958
—, —, —, —, treated with, 1,324,958
—, —, —, Pentruff, cleaned with, 1,324,958
—, —, —, —, treated with, 1,324,958
—, —, —, treated with, 1,324,958
—, —, Fraddon, cleaned with, 1,324,958
—, —, —, treated with, 1,324,958
—, clay cleaned with, 1,324,958
—, concrete-treating composition contg., 1,371,555
—, copper made with, 1,162,044
—, copper, electrodeposition of using, 1,138,921
—, —, removal of from, 1,176,292; 1,232,080; 1,262,063
—, copper sulfate made with, 1,162,044
—, copper sulfate, removal of from, 1,232,080
—, corundum, etching of using, 1,482,793
—, cotton, dyeing of, using, 1,199,273
—, counter-board made with, 1,332,541
—, cyanamide granulated using, 1,495,551
—, decomposition of, 1,296,457; 1,415,308
—, dental cement contg., 1,408,960
—, distiller's slop treated with, 1,344,950; 1,344,851; 1,423,042
—, dye, sulfur, made with, 1,316,742
—, —, vegetable, composition of contg., 1,273,293
—, dyeing using, 1,199,273
—, dyeing mixture contg., 1,457,581
—, dyestuff made with, 1,145,072; 1,169,267; 1,457,114
—, "egypson" made with, 1,463,123
—, electrode, storage battery, contg., 1,291,167
—, electrolysis of, 1,382,808
—, —, sulfuric acid solution contg., 1,351,144
—, electrolyte contg., 1,291,310
—, electrolyte, storage battery contg., 1,291,167
—, emery, etching of using, 1,482,793
—, ergot treated with, 1,394,233

Aluminum sulfate, etching solution contg., 1,362,159
—, ethyl alcohol, concentration of, using, 1,492,717
—, ethyl cellulose, composition of and, 1,505,044
—, ethylene made with, 1,206,222
—, explosive contg., 1,464,667
—, explosives, explosion temperature of reduced with, 1,464,667
—, extracted from manganese ore, 1,291,867
—, fabric, brocaded effect on, made using, 1,513,370
—, —, embossed, made with, 1,379,703
—, —, waterproofing of using, 1,208,400; 1,215,077; 1,242,327
—, —, water resisting contg., 1,313,658
—, fabrics flash-proofed with sodium phosphate and, 1,434,549
—, ferro-aluminum made with, 1,489,362
—, fertilizer made with, 1,249,863; 1,289,789
—, fertilizer, effect on of, 1,266,198
—, fiber, animal, waterproofing of with, 1,280,954
—, —, mineral, waterproofing of with, 1,280,954
—, —, vegetable, waterproofing of with, 1,280,954
—, fiber board made with, 1,184,518; 1,280,400; 1,332,541; 1,423,081; 1,514,655
—, filament, artificial, made with, 1,505,044
—, —, —, viscose, precipitated with, 1,260,508
—, film made with, 1,505,044
—, fire-extinguisher made with, 1,161,090; 1,219,509; 1,248,092; 1,375,779; 1,421,428; 1,421,436; 1,489,692; 1,507,943
—, fire extinguishing fluid contg., 1,401,240
—, fire extinguishing system using, 1,403,621
—, fire-preventing foam prepared with, 1,441,728
—, fireproofing made with, 1,248,092
—, fish scale treated with, 1,264,979
—, flavin extract, composition of contg., 1,273,293
—, flooring made with, 1,463,123
—, flotation of minerals with, 1,425,185
—, flotation of ores with, 1,425,186
—, flotation process using, 1,519,396
—, flour, self-rising, made with, 1,244,867
—, formation of, 1,351,144
—, —, aluminum, sulfur and, for, 1,318,709
—, formic acid, concentration of, using, 1,492,717
—, fuel, liquid, made with, 1,475,259
—, fungicide made with, 1,501,427
—, fustic extract, composition of contg., 1,273,293
—, garnet, etching of using, 1,482,793
—, gasolene made with, 1,274,912; 1,274,913
—, glass made with, 1,192,048; 1,287,005
—, glass, semi-translucent, made with, 1,287,005
—, —, translucent, made with, 1,192,048
—, glass substitute made with, 1,264,979
—, glue, vegetable, made with, 1,248,039
—, glycol made with, 1,206,222
—, gold ore, flotation of using, 1,519,396
—, gypsum, waterproofing of with, 1,256,324
—, hide, tanning of using, 1,288,458
—, horn substitute made with, 1,143,893
—, hydrocarbon made with, 1,274,913
—, hydrocyanic acid made with, 1,497,690
Aluminum sulfate, hydrogenation, catalyst for, made with, 1,172,062; 1,238,774
—, hypernic extract, composition of contg., 1,273,293
—, ink, printing, made with, 1,231,617; 1,237,136
—, insecticide made with, 1,501,427
—, insulating material made with, 1,353,621; 1,402,133; Re-15,844; 15,952
—, insulation, electric, made with, 1,175,424; 1,453,726
—, —, heat, made with, 1,230,085; 1,353,621; 1,402,133; Re-15,844; 15,952
—, iodine made with, 1,249,863
—, iron, cleaning of, with, 1,324,317
—, —, rust removed from with, 1,324,317
—, —, scale removed from with, 1,324,317
—, iron zinc coated, made with, 1,491,381
—, iron removed from, 1,300,417; 1,300,418
—, —, calcium carbonate for, 1,252,648
—, —, hydrogen sulfide for, 1,252,648
—, —, lead peroxide for, 1,252,648
—, —, metantimonic acid for, 1,252,648
—, —, metastannic acid for, 1,252,648
—, —, oxalic acid for, 1,252,648
—, —, ozone for, 1,252,648
—, —, potassium ferrocyanide for, 1,252,648
—, —, sodium carbonate for, 1,252,648
—, —, sodium hydroxide for, 1,252,648
—, —, separated from, process for, 1,252,384
—, iron sulfate, separation of from, 1,489,362
—, iron(ous) sulfate made with, 1,137,005
—, ivory nut substitute made with, 1,143,893
—, ivory substitute made with, 1,143,893
—, kelp treated with, 1,259,486
—, lactose made with, 1,500,770
—, lake made with, 1,126,591; 1,126,664; 1,203,642; 1,232,551; 1,434,619; 1,512,897
—, lead sulfate made with, 1,265,357
—, leather, coating for, made with, 1,505,044
—, —, waterproofing for, made with, 1,223,480
—, leather-board made with, 1,152,294
—, leather-board, waterproof, made with, 1,142,953
—, leather tanned with, 1,346,385
—, liquid, purification of using, 1,170,868
—, logwood extract, composition of contg., 1,273,293
—, manganese sulfate made with, 1,279,110
—, manganese sulfate, separation of from, 1,489,362
—, mfr. of, alkali aluminate for, 1,503,603
—, —, alkali hydroxide for, 1,483,627; 1,503,603
—, —, alkali nitrate for, 1,214,003
—, —, alum clay for, 1,308,429
—, —, aluminum for, 1,176,292; 1,229,611
—, —, aluminum alloy for, 1,176,292; 1,229,611
—, —, aluminum carbide for, 1,176,292; 1,229,611
—, —, aluminum carbonate for, 1,176,292; 1,229,611
—, —, aluminum compounds for, 1,308,429
—, —, aluminum dust for, 1,176,292; 1,262,063
—, —, aluminum hydroxide for, 1,483,627
—, —, aluminum minerals for, 1,170,418
—, —, aluminum nitride for, 1,176,292; 1,229,611
—, —, aluminum ore for, 1,251,057; 1,251,058; 1,308,429

Aluminum sulfate, mfr. of, aluminum oxide for, 1,176,292; 1,229,611
—, —, aluminum skimmings for,, 1,176,292; 1,229,611; 1,262,062
—, —, aluminum silicate for, 1,132,737; 1,160,431; 1,251,057; 1,251,058; 1,286,513; 1,300,417; 1,300,418; 1,480,928
—, —, alunite for, 1,233,977; 1,239,768; 1,277,773; 1,282,273; 1,338,428
—, —, alunogen for, 1,252,384; 1,252,648; 1,280,636
—, —, ammonium hydroxide for, 1,277,773
—, —, ammonium sulfate for, 1,280,636
—, —, apatite for, 1,126,408
—, —, apparatus for, 1,252,648; 1,280,636; 1,457,787; 1,483,627; 1,492,016; 1,503,603
—, —, asphalt for, 1,229,611
—, —, barium oxide for, 1,126,408
—, —, bauxite for, 1,132,737; 1,197,123; 1,252,648; 1,308,429; 1,359,037; 1,388,436
—, —, bone ash for, 1,126,408
—, —, calcium carbonate for, 1,252,384; 1,252,648; 1,286,513
—, —, calcium chloride for, 1,252,648
—, —, calcium fluoride for, 1,310,413; 1,480,928
—, —, calcium hydroxide for, 1,174,795; 1,214,003
—, —, calcium nitrate for, 1,214,003
—, —, calcium oxide for, 1,126,408; 1,494,029
—, —, calcium phosphate ($Ca_3(PO_4)_2$), for, 1,126,408
—, —, calcium sulfate for, 1,286,513; 1,310,413
—, —, carbon dioxide for, 1,483,627; 1,494,029; 1,503,603
—, —, clay for, 1,125,007; 1,132,737; 1,160,431; 1,170,418; 1,178,384; 1,251,057; 1,251,058; 1,300,417; 1,300,418; 1,308,429; 1,388,436
—, —, clay, fire, for, 1,132,737
—, —, —, flint, for, 1,132,737
—, —, —, Truesdale, for, 1,132,737
—, —, —, white, for, 1,480,928
—, —, copper for, 1,229,611
—, —, earth for, 1,170,418; 1,178,384; 1,251,057; 1,251,058; 1,308,429
—, —, feldspar for, 1,125,007; 1,126,408; 1,174,795; 1,214,003; 1,277,773; 1,286,513; 1,310,413; 1,492,016; 1,494,029; 1,503,603
—, —, feldspar, potash, for, 1,126,408; 1,483,627
—, —, —, sulfur dioxide, for, 1,402,831
—, —, fluorspar for, 1,310,413; 1,480,928
—, —, glauconite for, 1,322,900; 1,323,764
—, —, green sand for, 1,279,110; 1,322,900; 1,323,764
—, —, gypsum for, 1,125,007; 1,170,418; 1,178,384; 1,286,513; 1,310,413
—, —, halloysite for, 1,197,123; 1,308,429
—, —, halotrichite for, 1,252,384; 1,252,648; 1,280,636
—, —, hyaliphane for, 1,126,408
—, —, hydrocarbon for, 1,229,611
—, —, hydrocarbon, paraffin, for, 1,256,273
—, —, hydrochloric acid for, 1,126,408; 1,148,156; 1,222,960; 1,277,773
—, —, hydrofluoric acid for, 1,174,795; 1,480,928
—, —, hydrofluoric acid as catalyst for, 1,492,016
—, —, hydrofluosilicic acid for, 1,174,795; 1,480,928
Aluminum sulfate, mfr. of, hydrogen sulfide for, 1,252,648; 1,262,063
—, —, iron for, 1,229,611
—, —, iron ore for, 1,489,362
—, —, iron(ous) sulfate for, 1,323,764
—, —, kaolin for, 1,160,431; 1,170,418; 1,178,384
—, —, kaolinite for, 1,132,737
—, —, laterite for, 1,308,429
—, —, lead peroxide for, 1,252,648
—, —, lepidolite for, 1,286,513
—, —, leucite for, 1,125,007; 1,148,156
—, —, lime for, 1,222,960; 1,229,611
—, —, limestone for, 1,125,007; 1,170,418; 1,178,384; 1,222,960; 1,286,513
—, —, metantimonic acid for, 1,252,648
—, —, metastannic acid for, 1,252,648
—, —, mica for, 1,148,156
—, —, microcline for, 1,126,408
—, —, muscovite for, 1,222,960
—, —, ore, aluminum, for, 1,308,429
—, —, orthoclase for, 1,126,408; 1,214,003; 1,277,773; 1,286,513; 1,494,029; 1,503,603
—, —, oxalic acid for, 1,252,648
—, —, ozone for, 1,252,384; 1,252,648
—, —, petroleum for, 1,229,611
—, —, phlogophite for, 1,148,156
—, —, pholerite for, 1,132,737
—, —, phosphate rock for, 1,126,408
—, —, phosphoric acid for, 1,126,408
—, —, potassium aluminate for, 1,494,029; 1,503,603
—, —, potassium carbonate for, 1,277,773
—, —, potassium ferrocyanide for, 1,252,648
—, —, potassium hydroxide for, 1,483,627; 1,503,603
—, —, potassium-mica for, 1,310,413
—, —, potassium nitrate for, 1,214,003
—, —, potassium silicates for, 1,286,513; 1,484,029
—, —, process for, 1,125,007; 1,126,408; 1,132,737; 1,148,156; 1,160,431; 1,170,418; 1,171,360; 1,174,795; 1,176,292; 1,178,384; 1,197,123; 1,214,003; 1,222,960; 1,229,611; 1,233,977; 1,239,768; 1,251,057; 1,251,058; 1,252,384; 1,252,648; 1,262,063; 1,277,773; 1,279,110; 1,280,636; 1,286,513; 1,296,457; 1,310,413; 1,323,764; 1,480,928; 1,483,627; 1,489,362; 1,492,016; 1,494,029; 1,503,603
—, —, resin oil for, 1,229,611
—, —, rhyolite ash for, 1,308,429
—, —, rhyolite mud for, 1,308,429
—, —, rock for, 1,125,007; 1,170,418; 1,178,384
—, —, sand for, 1,251,057; 1,251,058
—, —, sericite for, 1,310,413
—, —, shale for, 1,125,007; 1,170,418; 1,178,384
—, —, silica for, 1,125,007
—, —, silicates for, 1,277,773; 1,492,016; 1,494,029
—, —, silicon tetrafluorides for, 1,174,795
—, —, slate for, 1,310,413
—, —, sludge sulfonic acid for, 1,286,513
—, —, sodium bisulfate for, 1,160,431
—, —, sodium carbonate for, 1,252,648
—, —, sodium chloride for, 1,148,156; 1,222,960
—, —, sodium fluoride for, 1,480,928
—, —, sodium hydroxide for, 1,252,648
—, —, sodium nitrate for, 1,214,003
—, —, sodium sulfate for, 1,160,431

Aluminum sulfate, mfr. of, strontium oxide for, 1,126,408
—, —, sulfide for, 1,262,063
—, —, sulfur dioxide for, 1,251,057
—, —, sulfur trioxide for, 1,492,016
—, —, sulfuric acid for, 1,125,007; 1,126,408; 1,132,737; 1,148,156; 1,160,431; 1,170,418; 1,174,795; 1,176,292; 1,178,384; 1,197,123; 1,214,003; 1,222,960; 1,233,977; 1,239,768; 1,251,057; 1,262,063; 1,277,773; 1,279,110; 1,282,273; 1,286,513; 1,300,417; 1,300,418; 1,310,413; 1,322,900; 1,480,928; 1,483,627; 1,489,362; 1,494,029; 1,503,603
—, —, tannic acid for, 1,251,057
—, —, tannin for, 1,251,057
—, —, tar for, 1,229,611
—, —, titanium dioxide for, 1,126,408
—, —, zirconium oxide for, 1,126,408
—, mesothorium chloride made with, 1,142,154
—, metal, metal coated, made with, 1,491,381
—, methyl acetate, concentration of, using, 1,492,717
—, methyl alcohol, concentration of, using, 1,492,717
—, methyl cellulose, composition of and, 1,505,044
—, mica substitute made with, 1,264,979
—, mineral matter made with, 1,169,506
—, mine water contg., 1,315,836
—, mine water constituent, 1,428,633
—, molded article made with, 1,477,576
—, moth repellent made with, 1,494,085; 1,515,182
—, mother-of-pearl substitute made with, 1,264,979
—, nickel, catalyst, made with, 1,172,062
—, nickel catalyzer made with, 1,450,174
—, nitrogen, fixation of using, 1,198,965
—, oil, mineral, purification of using, 1,170,868
—, —, vegetable, purification of using, 1,170,868
—, —, water, boiler feed, removal from of using, 1,243,191
—, paint made with, 1,231,617; 1,234,816
—, paint, fireproof, made with, 1,248,092
—, paint primer made with, 1,489,692
—, paper made with, 1,166,848; 1,341,991; 1,389,936
—, paper, coating for, contg., 1,480,928; 1,505,044
—, —, fireproof sizing for, made with, 1,248,092
—, —, waste, "white," water treated with, 1,443,454
—, —, wrapping, made with, 1,317,618
—, paper filler made with, 1,261,135
—, paper mill waste water, compound for purification of contg., 1,133,446
—, paper product made with, 1,317,618
—, paper size of leather scrap and, 1,449,892
—, paper sized with, 1,211,288; 1,223,480; 1,229,924; 1,401,525; 1,444,956; 1,480,928; 1,512,212; 1,512,213
—, papier mache, coating of using, 1,164,710
—, paste contg., 1,384,917
—, paving, road, made with, 1,326,110
—, peat treated with, 1,426,638
—, pectin product made with, 1,497,884
—, petroleum, action on of, 1,252,433
—, petroleum cracked with, 1,274,912
Aluminum sulfate, pigment made with, 1,166,808; 1,231,617
—, pigment, white, made with, 1,317,165
—, pitch, action on of, 1,252,433
—, plaster made with, 1,317,680
—, plaster board made with, 1,503,211
—, plastic made with, 1,143,893; 1,206,076; 1,315,342; 1,317,680; 1,326,110; 1,487,957; 1,505,044; 1,511,949
—, plastic, coating of using, 1,164,710
—, platinum, production of using, 1,281,878
—, platinum group metal, production of, using, 1,281,878
—, polish made with, 1,491,456
—, potassium aluminum sulfate made with, 1,286,513
—, potassium bichromate, recovery of using, 1,201,392
—, potassium chloride made with, 1,259,486
—, potassium cyanide, action on of, 1,158,513; 1,158,514
—, potassium extracted from feldspar by, 1,349,113
—, potassium iodide made using, 1,249,863
—, potassium salt made with, 1,259,486
—, potassium silico-fluoride decomposed by, 1,357,025
—, potassium sulfate made with, 1,279,145; 1,286,513; 1,357,025
—, *potassium sulfate and, see Aluminum potassium sulfate*
—, potassium sulfate from potassium silico-fluoride by, 1,355,381
—, preparation from alunite, 1,413,045
—, propanetriol made with, 1,368,023
—, pulp sized with, 1,229,924
—, purification of, apparatus for, 1,503,229
—, —, process for, 1,503,229
—, quartz, etching of using, 1,482,793
—, quercitron extract, composition of contg., 1,273,293
—, radium-barium chloride made with, 1,142,154
—, redwood treated with, 1,390,796
—, refractory made with, 1,244,275; 1,257,922
—, reservoir lining made with, 1,326,110
—, resin size, action of with, 1,292,721
—, road paving made with, 1,158,418; 1,236,875; 1,252,433; 1,315,342; 1,328,310
—, roofing made with, 1,197,307; 1,206,076; 1,234,816; 1,463,123; 1,511,949
—, rosin soaps precipitated by, 1,382,346
—, rug made with, 1,379,703
—, sand, etching of using, 1,482,793
—, satin white made with, 1,261,135; 1,381,991
—, separation from carnotite, 1,292,341
—, sewage purified using, 1,194,000; 1,465,137
—, shingle made with, 1,197,307
—, shoe, box toe, made with, 1,380,865
—, shoe heel made with, 1,477,576
—, shoe sole made with, 1,477,576
—, silica, etching of using, 1,482,793
—, silicon made with, 1,518,872
—, silicon alloy made with, 1,518,872
—, silicon carbide, etching of using, 1,482,793
—, silicon dioxide made with, 1,249,125
—, silk, artificial, made with, 1,505,044
—, silk, dyeing of, using, 1,199,273

Aluminum sulfate, silk, weighting of, using, 1,238,307
—, silver, gelatin emulsions of, recovery from of, using, 1,234,390; 1,234,391
—, —, photographic emulsions of, recovery from of, using, 1,234,390; 1,234,391
—, silver bromide, gelatin emulsions of, recovery from of, using, 1,234,391
—, —, photographic emulsions of, recovery from of, using, 1,234,391
—, silver chloride, gelatin emulsions of, recovery from of, using, 1,234,391
—, —, photographic emulsions of, recovery from of using, 1,234,391
—, silver ore, flotation of, using, 1,519,396
—, size made with, 1,229,924; 1,231,153; 1,276,206; 1,505,044
—, skins tanned with sodium chloride and, 1,345,429
—, slate as source of, 1,415,346
—, slaughter house waste water, compound for purification of contg., 1,133,446
—, sludge sulfonic acid purified using, 1,438,101; 1,495,891
—, soap of rosin and, 1,449,221
—, sodium bichromate, recovery of using, 1,201,392
—, sodium formate, composition of, and, 1,493,945
—, sodium iodide made using, 1,249,863
—, sodium sulfate made with, 1,493,945
—, soil treating composition contg., 1,361,596; 1,361,597
—, starch, fireproof, made with, 1,248,092
—, starch dissolved with, 1,378,105
—, steel, cleaning of, with, 1,324,317
—, —, rust removed from, with, 1,324,317
—, —, scale removed from, with, 1,324,317
—, stone, artificial, made with, 1,256,324
—, —, —, coating of using, 1,164,710
—, storage battery electrolyte contg., 1,429,830
—, storage battery grid prepared with, 1,432,845
—, sucrose from molasses with, 1,256,952
—, sugar made with, 1,201,936
—, sugar, beet, defecating of using, 1,156,060
—, —, cane, defecating of using, 1,156,060
—, —, defecating of using, 1,156,060
—, —, refining of using, 1,476,242
—, —, sorghum, defecating of using, 1,156,060
—, sugar solutions, purification of using, 1,170,868
—, sulfite waste liquor treated with, 1,394,151; 1,397,039
—, sulfur dioxide made with, 1,132,736; 1,132,737; 1,171,360; 1,249,125; 1,252,384; 1,308,429; 1,422,327
—, sulfur dioxide from sulfur and, 1,378,145
—, sulfur trioxide made with, 1,252,384
—, sulfuric acid, removal from of, 1,240,591
—, sulfuric acid made from, 1,252,384; 1,415,308
—, sumac extract, composition of contg., 1,273,293
—, talc insulators made with, 1,453,726
—, tannery waste water, compound for purification of contg., 1,133,446
—, tannin substitute contg., 1,376,805
Aluminum sulfate, tanning made with, 1,191,527; 1,235,059; 1,415,671; 1,427,221
—, tanning composition contg., 1,311,219; 1,311,220; 1,402,283
—, tanning compound made with, 1,376,805; 1,394,151; 1,497,672
—, tanning process using, 1,346,385; 1,427,221
—, tar, action on of, 1,252,433
—, tent fabric made with, 1,427,941
—, textile, coating for, made with, 1,505,044
—, —, waterproofing of, using, 1,215,077; 1,223,480
—, thorium compound made with, 1,142,154
—, thread, waterproofing of, using, 1,215,077
—, tile made with, 1,463,123
—, tin-plating electrolyte contg., 1,466,126
—, tire filler made with, 1,369,626
—, titanium compound made with, 1,504,672
—, titanium hydroxide made with, 1,504,672
—, titanium oxide made with, 1,504,672
—, titanium sulfate in, mfr. of, bauxite for, 1,173,698
—, —, —, process for, 1,173,698
—, —, —, sulfuric acid for, 1,173,698
—, —, water, purification of, using, 1,173,698
—, toluene made with, 1,274,913
—, trade waste treated with, 1,465,137
—, treating water with, apparatus for, 1,464,291
—, underwriters cloth made with, 1,427,941
—, varnish made with, 1,231,617
—, varnish, fireproof, made with, 1,248,092
—, vegetable glue made with, 1,378,105
—, viscose hardened by, 1,386,521
—, wall board made with, 1,511,949
—, wall covering made with, 1,313,658
—, wall plaster made with, 1,463,123
—, water, boiler feed, oil, removal of from, using, 1,243,191
—, —, compound for purification of contg., 1,133,446
—, —, hardness removed from with, 1,305,123
—, —, purification of, using, 1,137,005; 1,158,225; 1,170,868; 1,173,698; 1,192,075; 1,197,123; 1,441,731; 1,465,137; 1,513,566
—, —, removal from of, process for, 1,222,637
—, —, waste, compound for purification of contg., 1,133,446
—, waterproofing made with, 1,208,400; 1,215,077; 1,223,480; 1,242,327; 1,256,324; 1,400,164; 1,400,579
—, waterproofing composition prepared with, 1,460,251
—, waterproofing solution contg., 1,437,893
—, waterproofing with sodium palmitate and, 1,374,122
—, water purifying material made with, 1,343,927
—, water softener made from, 1,304,206
—, water softening compound made with, 1,482,601
—, water treated with, 1,418,013
—, wood, preserving of using, 1,248,022
—, —, waterproofing for, made with, 1,223,480
—, wood pulp made with, 1,166,848; 1,249,125
—, wood substitute made with, 1,463,123
—, wool, dyeing of, using, 1,199,273
—, —, moth repellent, made with, 1,494,085
—, —, water-proofing of, using, 1,208,400

Aluminum sulfate, wool washing waste water, compound for purification of contg., 1,133,446
—, zeolite, artificial, made with, 1,193,794; 1,208,797; 1,263,706; 1,263,707; 1,499,492; 1,515,007
—, zinc, iron coated with, made with, 1,491,381
—, zinc sulfate, separation of from, 1,489,362
—, *see also Alum; Alum cake; Alunogen*
—, (basic), aluminum oxide made with, 1,290,269
—, —, catalyst, dehydrogenation, made with, 1,271,013
—, —, —, hydrogenation, made with, 1,271,013
—, —, catalyst promoter, 1,271,013
—, —, formation of, 1,415,308
—, —, hair mineralized by, 1,394,655
—, —, mfr. of, alkali earth hydroxide for, 1,256,605
—, —, —, alkali hydroxide for, 1,256,605
—, —, —, alunite for, 1,256,605
—, —, —, calcium hydroxide for, 1,256,605
—, —, —, process for, 1,256,605
—, —, —, sulfur dioxide for, 1,256,605
—, —, sewage treated with, 1,465,137
—, —, trade waste treated with, 1,465,137
—, —, water, purification of using, 1,197,123
—, —, water purified with, 1,465,137
—, —, wool mineralized with, 1,394,655
—, —, $(Al_2(OH)_2(SO_4)_2$, mfr. of, aluminum sulfate for, 1,137,005
—, —, —, —, iron scrap for, 1,137,005
—, —, —, —, process for, 1,137,005
—, —, —, water, purification of, using, 1,137,005
Aluminum sulfate solutions, clarifying, packing house stick for, 1,359,037
Aluminum sulfide, abrasive from bauxite, iron and, 1,448,586
—, aluminum made with, 1,220,843; 1,512,462
—, aluminum contg., alloy prepared with, 1,359,813
—, aluminum alloy made with, 1,220,843; 1,512,462
—, aluminum alloy, copper in, made with, 1,220,843
—, aluminum chloride made with, 1,270,226; 1,308,885
—, battery, electric, contg., 1,316,760
—, calcium made with, 1,512,462
—, calcium alloy made with, 1,512,462
—, copper, aluminum alloy contg., made with, 1,220,843
—, formation of, 1,346,365
—, mfr. of, aluminum sulfate for, 1,270,226
—, silicon made with, 1,512,462
—, silicon alloy made with, 1,512,462
Aluminum sulfide ore, aluminum compound made with, 1,249,125
—, aluminum oxide made with, 1,249,125
—, silicon dioxide made with, 1,249,125
—, sulfur dioxide made with, 1,249,125
—, wood pulp made with, 1,249,125
Aluminum sulfite, aluminum hydroxide made with, 1,325,873
—, aluminum oxide made with, 1,326,384
—, formation of, aluminum hydroxide for, 1,325,873
Aluminum sulfite, formation of, sulfur dioxide for, 1,325,873
—, grease, recovery of from wool scouring liquor with, 1,325,873
—, mfr. of, aluminum silicates for, 1,148,092
—, —, bauxite for, 1,326,384
—, —, calcium hydroxide for, 1,326,384
—, —, carbon dioxide for, 1,326,384
—, —, clay for, 1,326,384
—, —, clay, China, for, 1,326,384
—, —, nephelin syenite for, 1,148,092
—, —, process for, 1,148,092
—, —, sodium carbonate for, 1,326,384
—, —, sodium hydroxide for, 1,326,384
—, —, sulfur dioxide for, 1,148,092; 1,326,384
—, —, sulfurous acid for, 1,148,092
—, potassium salts, recovery of from wool, scouring liquor with, 1,325,873
—, silicon dioxide made with, 1,326,384
—, sulfite waste liquor composition contg., 1,400,164
—, sulfur dioxide made with, 1,325,873
Aluminum sulfite, (basic), mfr. of, process for, 1,234,905
—, —, —, steam for, 1,234,905
—, —, —, sulfur dioxide for, 1,234,905
—, —, —, water for, 1,234,905
Aluminum support, Wollaston wire etched using, 1,305,240
Aluminum "swarf," alloy made with, 1,321,684
—, chromium made with, 1,321,684
—, ferro-alloy made with, 1,321,684
—, ferro-chromium made with, 1,321,684
—, ferro-titanium made with, 1,321,684
—, ferro-tungsten made with, 1,321,684
—, ferro-vanadium made with, 1,321,684
—, manganese made with, 1,321,684
—, metal made with, 1,321,684
—, metal alloy made with, 1,321,684
—, tungsten made with, 1,321,684
—, (basic), abrasive made with, 1,226,892; 1,234,905
—, —, mfr. of, nepheline syenite for, 1,234,905
Aluminum tannate, road paving made with, 1,213,555
Aluminum thiosulfate, tanning with, 1,404,957
Aluminum titanate ($AlTiO_5$), electrode, arc lamp, made with, 1,164,728
Aluminum titanofluoride, glass made with, 1,419,032
Aluminum tube, index hand, self luminous, made with, 1,364,368
—, lead core for, during shaping, 1,258,854
Aluminum tungate, see Tung oil, aluminum soap of
Aluminum tungstate, dental cement contg., 1,408,960
—, formation of, aluminum sulfate for, 1,292,559
—, —, sodium tungstate for, 1,292,559
Aluminum ware, decorating of, aluminum powder for, 1,243,362
—, —, beeswax for, 1,243,362
—, —, English printing oil for, 1,243,362
—, —, ink, printers, for, 1,243,362
—, —, oil, vegetable, for, 1,243,362
—, —, process for, 1,243,362
—, —, resin for, 1,243,362

Aluminum ware, decorating of, turpentine oil for, 1,243,362
—, —, zinc oxide for, 1,243,362
—, lute for repair for, 1,263,398
—, mending cement for, mfr. of, process for, 1,269,116
Aluminum waste, aluminum, recovery of using, 1,180,435
—, iron-boro-silicate for agglomerating, 1,381,748
Aluminum wire, aluminum oxide coating on, forming, 1,431,237
—, cleaning, hydrochloric acid and tin chloride for, 1,363,186
—, copper coated, 1,405,534; 1,405,535
—, copper plated, apparatus for, 1,322,494
—, —, cyanide for, 1,322,494
—, —, hydrochloric acid for, 1,322,494
—, —, process for, 1,322,494
—, —, tin chloride for, 1,322,494
—, copper plating, apparatus for, 1,363,186
—, electric coils made with, 1,431,237
—, electrode, welding, made with, 1,144,390
—, feathers, imitation, made with, 1,246,296
—, gear made with, 1,438,875
—, heron feathers, imitation, made using, 1,246,296
—, insulating, aluminum oxide for, 1,431,237
—, tin coated, 1,405,534; 1,405,535
Aluminum wool, rubber substitute made with, 1,223,692
—, tire made with, 1,223,692
Aluminum zinc alloy, hardness increased of, process for, 1,326,775
—, zinc sulfate solutions purified by, 1,382,494
Alum rock, see Alunite
Alum salt, see Potassium aluminum sulfate
Alum slate, alkali cyanate made with, 1,264,949
—, alkali cyanide made with, 1,264,949
—, lime made with, 1,264,949
—, potassium cyanate made with, 1,264,949
—, potassium cyanide made with, 1,264,949
Alum stone, see Alunite
Alundum, abrasive wheel made with, 1,133,260; 1,146,884
—, acetaldehyde made with apparatus made with, 1,124,347
—, aluminum made with, 1,512,462
—, aluminum alloy made with, 1,512,462
—, anti-slip paint for concrete contg., 1,383,268
—, calcium made with, 1,512,462
—, calcium, tungsten alloy contg., made with, 1,486,214
—, calcium alloy made with, 1,512,462
—, carbon monoxide made with apparatus made with, 1,124,347
—, catalyst (for nitric acid mfr.), made with, 1,347,158; 1,347,159; 1,347,160
—, —, acetaldehyde made with, 1,124,347
—, —, carbon monoxide made with, 1,124,347
—, —, hydrogen made with, 1,124,347
—, —, nickel as, made with, 1,419,986
—, catalyst supporter of, 1,295,825
—, chlorine distributed by means of, 1,298,552; 1,298,553; 1,298,554
—, coating composition contg., 1,395,451
—, concrete, dust formation prevented, using, 1,130,717
Alundum, concrete floor, treatment of, using, 1,246,827
—, copper cast using mold of, 1,199,427
—, disk, abrasive, made with, 1,311,550
—, engine, internal-combustion, piston fitting compound contg., 1,463,501
—, furnace, electric, made with, 1,217,497
—, hydrogen, diffusion of through, 1,124,347
—, hydrogen made with apparatus made with, 1,124,347
—, insulation, electric, made with, 1,358,366
—, iron, tungsten alloy contg., made with, 1,486,214
—, mold, sand, made with, 1,153,231
—, nickel, catalyst, made with, 1,419,986
—, nickel catalyst ground with, 1,419,986
—, nickel catalyst regenerated by grinding with, 1,412,219
—, nitric acid, catalyst for the mfr. of, made with, 1,347,158; 1,347,159; 1,347,160
—, paint, concrete, made with, 1,383,268
—, platinized, catalyst in ammonia oxidation, 1,347,158; 1,347,159; 1,347,160
—, platinum catalyst support, 1,309,623
—, refractory contg., 1,412,916; 1,486,214
—, silicon made with, 1,512,462
—, silicon, tungsten alloy contg., made with, 1,486,214
—, silicon alloy made with, 1,512,462
—, steel, magnetic, annealing of using, 1,156,496
—, —, silicon, annealing of using, 1,156,496
—, stone, artificial, made with, 1,273,547
—, thorium, tungsten alloy contg., made with, 1,486,214
—, tile made with, 1,198,940
—, tungsten alloy, calcium in, made with, 1,486,214
—, —, iron in, made with, 1,486,214
—, —, silicon in, made with, 1,486,214
—, —, thorium in, made with, 1,486,214
—, vault, burglar proof, made with, 1,423,652
—, *see also Abrasive; Alumina, crystalline; Aluminum ore; Aluminum oxide; Corundum; Emery*
Alundum diaphragm, magnesium made with, 1,486,546
Alundum diffusion partition, air, helium, separation of from using, 1,496,757
—, —, hydrogen, separation of from using, 1,496,757
—, helium, air, separation of from using, 1,496,757
—, —, natural gas, separation of from using, 1,496,757
—, hydrogen, air, separation of from using, 1,496,757
—, —, nitrogen, separation of from using, 1,496,757
—, —, water gas, separation of from using, 1,496,757
—, natural gas, helium, separation of from using, 1,496,757
—, nitrogen, hydrogen, separation of from using, 1,496,757
—, water gas, hydrogen, separation of from using, 1,496,757

Alundum filter, ammonium metaphosphate made with, 1,284,200
—, phosphoric acid made with, 1,284,200
—, phosphorus pentoxide made with, 1,284,200
—, potassium metaphosphate made with, 1,284,200
—, salvarsan made using, 1,512,909
Alunite, abrasive made with, 1,239,984; 1,263,607
—, alum made with, 1,256,605; 1,277,773; 1,279,109; 1,413,045
—, alumina made with, 1,420,201
—, alumina, alkali soluble, made with, 1,137,617
—, aluminate made with, 1,240,570
—, aluminum made with, 1,217,432
—, aluminum carbide made with, 1,137,617
—, aluminum chloride made with, 1,277,773; 1,320,193
—, aluminum compound made with, 1,249,125
—, aluminum fluoride made with, 1,217,432
—, aluminum hydroxide made with, 1,239,768; 1,274,145; 1,336,508
—, aluminum nitride made with, 1,188,651; 1,250,874; 1,393,370; 1,393,371; 1,393,372; 1,415,036
—, aluminum oxide made with, 1,146,549; 1,191,105; 1,191,106; 1,195,655; 1,214,991; 1,233,977; 1,239,768; 1,239,984; 1,249,125; 1,255,749; 1,256,605; 1,268,433; 1,270,266; 1,274,145; 1,282,273; 1,386,031; 1,401,136; 1,401,137; 1,413,045; 1,422,848
—, —, kiln for, 1,317,686
—, —, process for, 1,301,394; 1,317,686
—, —, sodium chloride for, 1,301,394
—, aluminum potassium sulfate made with, 1,239,768
—, aluminum salts made with, 1,240,570
—, aluminum sulfate made with, 1,233,977; 1,239,768; 1,277,773; 1,282,273; 1,336,508; 1,338,428; 1,413,045
—, aluminum sulfate (basic), made with, 1,256,605
—, ammonium phosphate ($NH_4H_2PO_4$), made with, 1,191,615
—, ammonium potassium sulfate made with, 1,261,116; 1,261,117
—, barium aluminate made with, 1,191,106
—, barium chloride made with, 1,191,106
—, barium sulfate made with, 1,191,106; 1,274,145
—, calcined, furnace lining protected with, 1,308,481
—, calcining of, 1,401,136; 1,401,137; 1,401,741; 1,413,045; 1,413,048
—, —, process for, 1,253,590; 1,253,591
—, calcium (acid) phosphate made with, 1,413,048
—, catalyst, chlorine made with, 1,311,175
—, —, sulfur trioxide made with, 1,413,280
—, —, sulfuric acid made with, 1,314,280
—, catalyst for the mfr. of, nitrogen oxides made with, 1,420,201
—, —, sulfuric acid, made with, 1,420,202
—, catalyst prepared with, 1,420,202; 1,420,203
—, cement, aromatic, contg., 1,455,598
—, composition of, 1,136,549; 1,338,428; 1,377,554
—, concrete floor, coating of, using, 1,130,717
Alunite, dissolving of, sulfuric acid for, 1,336,508
—, electrical treatment of, 1,377,554
—, ferro-silicon made with, 1,239,984
—, fertilizer made with, 1,191,615; 1,261,116; 1,261,117; 1,413,048
—, fertilizer, explosive contg., 1,316,396
—, formula, $K_2O.\ 3\ Al_2O_3.\ 4SO_3.\ 6H_2O$, 1,301,394
—, gangue, separation from of, process for, 1,253,590; 1,253,591
—, hydrochloric acid made with, 1,214,991; 1,422,848
—, hydrochloric acid from sodium chloride and, 1,301,394
—, iron chloride made with, 1,320,193
—, iron chloride volatilized from, 1,291,979
—, iron removed from, 1,291,979
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,420,201
—, phosphate fertilizer made with, 1,413,048
—, potassium from, sodium chloride for, 1,301,394
—, potassium aluminate made with, 1,189,254; 1,191,104; 1,191,105; 1,191,106; 1,240,570
—, potassium aluminum sulfate made with, 1,256,605; 1,277,773; 1,314,280
—, potassium chloride made with, 1,191,106; 1,277,773; 1,320,193
—, potassium chloride separated from calcium chloride by, 1,422,848
—, potassium compound made with, 1,236,903; 1,239,984; 1,277,773; 1,334,940
—, potassium extracted from, 1,308,481
—, potassium nitrate made with, 1,274,145
—, potassium phosphate, (KH_2PO_4), made with, 1,191,615
—, potassium salt from, process for, 1,320,193
—, potassium sulfate made with, 1,136,549; 1,161,239; 1,175,439; 1,195,655; 1,214,991; 1,217,432; 1,217,750; 1,233,977; 1,261,116; 1,261,117; 1,268,433; 1,277,773; 1,282,273; 1,336,508; 1,338,428; 1,386,031; 1,401,136; 1,401,137; 1,413,045; 1,422,848
—, potassium sulfate from, kiln for, 1,317,686
—, —, process for, 1,301,394; 1,317,686
—, potassium sulfate, recovery of from, 1,253,590; 1,253,591
—, purification of, 1,291,979
—, —, carbon for, 1,291,979
—, —, sodium chloride for, 1,291,979
—, —, sulfuric acid for, 1,291,979
—, redwood treated with, 1,390,796
—, refractory made with, 1,197,626; 1,198,033; 1,226,750; 1,240,569
—, rhyolite, separation from of, process for, 1,253,590; 1,253,591
—, rock, separation from of, process for, 1,253,590; 1,253,591
—, silica made with, 1,274,145
—, silica, separation from of, process for, 1,253,590; 1,253,591
—, silicon dioxide made with, 1,249,125; 1,274,145
—, silicon dioxide removed from, 1,291,979
—, silicon volatilized from, 1,291,979
—, sodium aluminate made with, 1,191,106; 1,214,991; 1,338,428

Alunite, sodium carbonate made with, 1,214,991
—, sodium chloride made with, 1,191,106
—, sodium hydroxide made with, 1,214,991
—, sodium sulfate made with, 1,136,549; 1,214,991; 1,282,273
—, spinel, artificial, made with, 1,448,010
—, sulfur made with, 1,195,655
—, sulfur dioxide made with, 1,136,549; 1,301,394; 1,308,429; 1,413,048
—, sulfur dioxide, treatment with of, 1,256,605
—, sulfuric acid made with, 1,239,984; 1,386,031; 1,413,048; 1,422,848
—, sulfuric acid, action of on, 1,282,273
—, —, catalyst for the mfr. of, made with, 1,420,202
—, sulfur trioxide made with, 1,136,549; 1,301,394; 1,413,048
—, superphosphate made with, 1,413,048
—, treating of, 1,338,428; 1,401,741; 1,413,045
—, —, acid for, 1,338,428
—, —, potassium carbonate for, 1,338,428
—, —, potassium hydroxide for, 1,338,428
—, —, sodium carbonate for, 1,338,428
—, —, sodium hydroxide for, 1,338,428
—, treating with sulfuric acid, apparatus for, 1,457,787
—, treatment of, carbon for, 1,301,394
—, utilization of, 1,338,508
—, wood pulp made with, 1,249,125
—, *see also Alum; Aluminum potassium sulfate; Potassium aluminum sulfate*
Alunogen, aluminum hydroxide made with, 1,280,636
—, aluminum oxide made with, 1,252,384; 1,280,636
—, aluminum sulfate made with, 1,252,384; 1,252,648; 1,280,636
—, ammonium aluminum sulfate made with, 1,280,636
—, iron sulfate as impurity in, 1,252,384
—, iron(ic) hydroxide made with, 1,280,636
—, iron(ic) oxide made with, 1,280,636
—, iron(ic) sulfate made with, 1,280,636
—, *see also Aluminum sulfate*
Amalgam, airplane engine, manifold for, made with, 1,282,266; 1,282,269
—, alkali earth formate made with, 1,185,028
—, alkali formate made with, 1,185,028
—, ammonium formate made with, 1,185,028
—, calcium formate made with, 1,185,028
—, carbon monoxide made with, 1,190,845
—, dentist's, mfr. of, apparatus for, 1,317,886
—, —, —, celluloid capsule for, 1,317,886
—, —, —, gelatin capsule for, 1,317,886
—, —, —, mercury for, 1,317,886
—, diamond, imitation, made with, 1,219,853
—, discharge tube, electric, made with, 1,169,082
—, engine, internal combustion, manifold for, made with, 1,282,266; 1,282,269
—, flotation process using, 1,257,990
—, formate made with, 1,190,845
—, formic acid made with, 1,185,028
—, glyoxylate made with, 1,190,845
—, glyoxylic acid made with, 1,190,845
Amalgam, hydrogen-sodium-mercury, precious metals extracted by aid of, 1,352,832
—, iron coated with mercury using, 1,324,835
—, lamp, metal vapor, made with, 1,244,121
—, lead sulfide, zinc sulfide, separation from of using, 1,257,990
—, magnesium formate made with, 1,185,028
—, mfr. of, process for, 1,252,887
—, mercury in, recovery apparatus for, 1,372,137
—, metal made with, 1,505,494
—, metal coated with mercury using, 1,324,835
—, ore, sulfide, concentrated with, 1,257,990
—, potassium formate made with, 1,185,028
—, producing of, apparatus for, 1,420,211
—, reaction by means of, apparatus for effecting, 1,411,507
—, sodium, forming, 1,374,370
—, *sodium-, see also Sodium amalgam*
—, sodium formate made with, 1,185,028
—, steel coated with mercury using, 1,324,835
—, tartaric acid made with, 1,190,845
—, tartrate made with, 1,190,845
—, *see also Dental amalgam*
Amalgamating, apparatus for, 1,221,461; 1,436,518
—, cell for, 1,430,091
Amalgamation, apparatus for, 1,397,815
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—, gold recovered by, 1,293,828
—, platinum recovered by, 1,293,828
—, silver recovered by, 1,293,828
Amanitine, see Choline
Amaranth, butter, coloring compound for, made with, 1,224,910
—, cocoanut shreds colored with, 1,382,038
—, photograph, colored, made with, 1,248,139
—, polish contg., 1,314,482
Amarillo resin, chicle substitute made with, 1,134,073
Amatol, ammonium nitrate in, 1,492,905; 1,492,922; 1,492,923; 1,492,924; 1,492,925; 1,492,949; 1,492,956; 1,492,957; 1,492,958
—, ammonium nitrate, recovery of from, 1,492,922; 1,492,956; 1,492,957; 1,492,958
—, explosive contg., 1,444,594; 1,456,341
—, trinitro-toluene in, 1,492,905; 1,492,922; 1,492,923; 1,492,924; 1,492,925; 1,492,949; 1,492,956; 1,492,957; 1,492,958
—, trinitro-toluene, recovery from, 1,492,922; 1,492,956; 1,492,957; 1,492,958
—, unloading shell filled with, apparatus for, 1,492,905; 1,492,922; 1,492,923; 1,492,925; 1,492,949; 1,492,956; 1,492,957; 1,492,958
—, unloading shell filled with, process for, 1,492,905; 1,492,922; 1,492,923; 1,492,924; 1,492,925; 1,492,949; 1,492,956; 1,492,957; 1,492,958
Amber, bean oil, compound of and, sulfonation of, 1,289,097
—, castor oil, compound of and, sulfonation of, 1,289,097
—, coating composition made with, 1,189,551
—, cod oil, compound of and, sulfonation of, 1,289,097
—, concrete, coating composition for, made with, 1,189,551

Amber, corn oil, compound of and, sulfonation of, 1,289,097
—, cotton seed oil, compound of and, sulfonation of, 1,289,097
—, dental filling made with, 1,294,355
—, fat, compound of and, sulfonation of, 1,289,097
—, fatty acid, compound of and, sulfonation of, 1,289,097
—, fish oil, compound of and, sulfonation of, 1,289,097
—, goiter, treatment of, using, 1,190,831
—, grease, compound of and, sulfonation of, 1,289,097
—, imitation, mfr. of, acetone for, 1,199,798; 1,245,476
—, —, —, acetodichlorhydrin for, 1,245,476
—, —, —, alcohol for, 1,199,798; 1,245,476; 1,263,284
—, —, —, cellulose acetate for, 1,199,798; 1,245,476
—, —, —, cellulose esters for, 1,396,075
—, —, —, chloroform for, 1,199,798; 1,245,476
—, —, —, dichlorhydrin for, 1,245,476
—, —, —, diphenylamine for, 1,199,798; 1,245,476
—, —, —, ethyl acetate for, 1,199,798; 1,245,476
—, —, —, ethyl acetoacetate for, 1,245,476
—, —, —, ethyl benzoate for, 1,245,476
—, —, —, formaldehyde for, 1,263,284
—, —, —, gelatin for, 1,263,284
—, —, —, glue for, 1,396,075
—, —, —, glue, animal, for, 1,263,284
—, —, —, glycerol for, 1,263,284
—, —, —, hop flower extract for, 1,263,284
—, —, —, lac for, 1,396,075
—, —, —, lithopone for, 1,396,075
—, —, —, oxalic acid for, 1,263,284
—, —, —, phenyl salicylate for, 1,245,476
—, —, —, pigment for, 1,396,075
—, —, —, process for, 1,199,798; 1,245,476; 1,263,284; 1,396,075
—, —, —, tannin for, 1,263,284
—, —, —, *s*-tetrachlorethane for, 1,199,798 1,245,476
—, —, —, trichlor-phenol for, 1,245,476
—, —, —, tricresyl phosphate for, 1,245,476
—, —, —, triphenyl phosphate for, 1,199,798; 1,245,476
—, —, —, urea for, 1,199,798; 1,245,476
—, —, —, varnish for, 1,396,075
—, —, —, wood for, 1,396,075
—, —, —, zinc white for, 1,396,075
—, —, urea-formaldehyde condensate as, 1,458,543
—, insulation, electric, made with, 1,240,565
—, iron, lead coated, using, 1,285,511
—, lard oil, compound of and, sulfonation of, 1,289,097
—, lead, iron coated with, using, 1,285,511
—, —, refining of, using, 1,285,511
—, —, steel coated, using, 1,285,511
—, oil, animal, compound of and, sulfonation of, 1,289,097
—, oil, vegetable, compound of and, sulfonation of, 1,289,097
—, ozonizing, 1,430,538
—, paint contg., 1,448,284
Amber, phenol aldehyde condensate made with, 1,146,388; 1,255,500
—, phonograph record made with, 1,255,500
—, pipe made with, 1,214,987
—, plastic contg., 1,295,356
—, raw, paint contg., 1,448,284
—, record, phonograph, made with, 1,146,388
—, rubber substitute made with, 1,430,538
—, solvent for, bean oil as, 1,289,097
—, —, castor oil as, 1,289,097
—, —, chloroform as, 1,294,355
—, —, cod oil as, 1,289,097
—, —, corn oil as, 1,289,097
—, —, cotton seed oil as, 1,289,097
—, —, fat as, 1,289,097
—, —, fatty acid as, 1,289,097
—, —, fish oil as, 1,289,097
—, —, grease as, 1,289,097
—, —, lard oil as, 1,289,097
—, —, oil, animal, as, 1,289,097
—, —, —, vegetable, as, 1,289,097
—, —, tallow as, 1,289,097
—, steel, lead coated, using, 1,285,511
—, stencil made with, 1,371,157
—, succinic acid made with, 1,491,465
—, tallow, compound of and, sulfonation of, 1,289,097
Amberoid, abrasive wheel impregnated with, 1,403,416
—, *see also Phenol aldehyde condensate*
Amberoid plastic, see Phenol aldehyde condensate
Amber oil, carbon tetrachloride, freezing point of mixture of and, 1,270,395
—, coating for material contg., 1,304,071
—, fire-extinguisher contg., carbon tetrachloride and, 1,270,395
—, leather dressing contg., 1,329,968
—, polish contg., 1,329,968
Amber plug, cigar made with, 1,520,761
Amber resin, calf hide, waterproofing of using, 1,150,047
—, goat hide, waterproofing of using, 1,150,047
—, leather, waterproofing of using, 1,150,047
—, sheep hide, waterproofing of using, 1,150,047
—, solvent for, benzene in, 1,150,047
—, —, naphtha in, 1,150,047
Amber substitute, mfr. of, acetic acid, glacial, for, 1,489,213
—, —, acetodichlorhydrin for, 1,386,576
—, —, acetone for, 1,241,738; 1,386,576; 1,502,945
—, —, acid, organic, for, 1,475,446
—, —, acid anhydride for, 1,241,738
—, —, alcohol for, 1,241,738; 1,386,576
—, —, aldehyde for, 1,502,945
—, —, alkali hydroxide for, 1,502,945
—, —, aldehyde resin for, 1,489,213
—, —, barium hydroxide for, 1,502,945
—, —, benzoyl peroxide for, 1,241,738
—, —, camphor for, 1,241,738
—, —, camphor substitute for, 1,241,738
—, —, castor oil for, 1,241,738
—, —, cellulose acetate for, 1,386,576
—, —, chlor-benzene for, 1,241,738
—, —, chloroform for, 1,386,576
—, —, cotton linters for, 1,502,945
—, —, *s*-dichlor-ethane for, 1,241,738

Amber substitute, mfr. of, dichlor-ethylene for, 1,241,738
—, —, dichlorhydrin for, 1,386,576
—, —, dihydroxy-diphenyl-dimethyl-methane for, 1,158,962
—, —, dihydroxy-diphenyl-dimethyl-methane aldehyde condensate for, 1,158,962
—, —, dimethylamine for, 1,475,446
—, —, diphenylamine for, 1,386,576
—, —, epichlorhydrin for, 1,241,738
—, —, esters for, 1,241,738
—, —, ethers for, 1,241,738
—, —, ethyl acetate for, 1,241,738; 1,386,576
—, —, ethyl acetoacetate for, 1,386,576
—, —, ethyl benzoate for, 1,386,576
—, —, ethylidene diacetate for, 1,241,738
—, —, formaldehyde for, 1,147,264; 1,475,446; 1,502,945
—, —, glycerol for, 1,489,213
—, —, hexamethylenetetramine for, 1,502,945
—, —, hydroxy-carboxylic acid for, 1,475,446
—, —, ketones for, 1,241,738; 1,502,945
—, —, lamp, mercury vapor, for, 1,241,738
—, —, manganese acetate for, 1,489,213
—, —, metal oxide for, 1,241,738; 1,489,213
—, —, oxygen for, 1,241,738; 1,489,213
—, —, ozone for, 1,489,213
—, —, ozonide for, 1,241,738
—, —, paraformaldehyde for, 1,502,945
—, —, perborate for, 1,241,738
—, —, percarbonate for, 1,241,738
—, —, permanganate for, 1,489,213
—, —, peroxide (organic) for, 1,241,738
—, —, phenol for, 1,475,446
—, —, phenyl salicylate for, 1,386,576
—, —, potassium carbonate for, 1,502,945
—, —, potassium hydroxide for, 1,502,945
—, —, process for, 1,147,264; 1,158,962; 1,241,738; 1,386,576; 1,475,446; 1,489,213; 1,502,945
—, —, resorcinol for, 1,147,264
—, —, salicylic acid for, 1,475,446
—, —, silver oxide for, 1,241,738
—, —, sodium carbonate for, 1,502,945
—, —, sodium hydroxide for, 1,502,945
—, —, sodium phosphate (Na_2HPO_4), for, 1,502,945
—, —, —, (Na_3PO_4), for, 1,502,945
—, —, *s*-tetrachlor-ethane for, 1,241,738; 1,386,576
—, —, trichlor-ethane for, 1,241,738
—, —, trichlorphenol for, 1,386,576
—, —, tricresyl phosphate for, 1,386,576
—, —, triphenyl phosphate for, 1,386,576
—, —, ultra-violet ray for, 1,241,738
—, —, urea for, 1,386,576
—, —, vinyl acetate for, 1,241,738
—, —, vinyl bromide for, 1,241,738
—, —, vinyl chlor-acetate for, 1,241,738
—, —, vinyl chloride for, 1,241,738
—, —, vinyl esters for, 1,241,738
—, —, vinyl halide for, 1,241,738
—, —, wood flour for, 1,502,945
—, —, zinc oxide for, 1,502,945
Amblygonite, composition of, $Li(AlF)PO_4$, 1,303,268
—, enamel contg., 1,303,268
—, glass contg., 1,303,268
Amblygonite, glaze contg., 1,303,268
—, potassium chloride made with, 1,226,812
—, potassium compound made with, 1,226,812
—, potassium cyanide made with, 1,226,811; 1,226,812
—, *see also Aluminum fluophosphates; Lithium fluophosphate*
Amboceptor, bacteria treated with, process for, 1,448,290
—, blood pressure reducing substance prepared with, 1,399,535
Amboceptor serum, bacteria killed by, 1,399,535
"Ambrine," candle of, application to wounds with, 1,264,781
—, candle, medicinal, made with, 1,289,093
—, composition of, 1,264,781
"Ambroid," piezo-electrical crystals coated with, 1,414,370
—, piezophony using, 1,495,429
—, telephone receiver using, 1,495,429
—, telephone transmitter using, 1,495,429
Ambrosia artemisiaefolia, see Bitter weed
Amel acetate, see Amyl acetate
American beauty, S. 2067, silk dyed with, 1,446,860
American foul brood, bee food, sterilized, for feeding bees exposed to infection with, 1,511,856
—, combating of, alkali for, 1,511,857
—, —, hypochlorite for, 1,511,857
—, —, sodium carbonate for, 1,511,857
—, —, sodium hypochlorite for, 1,511,857
—, —, process for, 1,511,857
—, honeycomb sterilized when infected with, 1,511,762
—, *see also Foul brood*
"American petrolite," cracking, 1,437,045
—, dyestuff made with, 1,239,099
—, explosive made with, 1,239,099
—, gasolene made with, 1,239,099
—, properties of, 1,239,099
American red, see Iron(ic) oxide
American sienna, see Iron(ic) oxide; Indian Red
American vermilion, see Vermilion, American
American wormseed, see Chenopodium
Amethyst, oriental, see Aluminum oxide; Corundum; Sapphire
Amethyst S. 7185, silk dyed with, 1,446,860
Amianth, coffin made using, 1,150,688
Amid, battery, dry, made with, 1,160,907
—, manganese oxides, recovered, made with, 1,160,907
Amidduron, printing plate, lithographic, made with, 1,203,770
—, *see also Stearamide*
Amide, alkali metal, lead alloy contg., treatment of using, 1,197,329
—, catalyst, hydrocyanic acid made with, 1,352,176
—, dyeing process using, 1,333,700
—, lead alloy, alkali metal in, treatment of using, 1,197,329
—, —, potassium in, treatment of using, 1,197,329
—, —, sodium in, treatment of using, 1,197,329
—, phenol aldehyde condensate made with, 1,187,230; 1,187,232

Amide, potassium, lead alloy contg., treatment of using, 1,197,329
—, powder, propellent, made with, 1,354,442
—, sodium, lead alloy contg., treatment of using, 1,197,329
Amido-, see Amino
Amidoacetic acid, see Glycine; Glycocoll
Amidoacetophenetidine, see Phenocoll
Amido acids, lead ore concentrated by use of, 1,449,797
—, ore concentrated by use of, 1,449,797
—, rubber, synthetic, made with, 1,238,930; 1,248,888
—, suint ingredient, 1,405,371
—, tin ore concentrated by use of, 1,449,797
—, vanadium ore concentrated by use of, 1,449,797
Amidoanisidine, carbamides from, 1,351,888
Amidoanthraquinones, see Aminoanthraquinones
p-Amido-azobenzol, see p-Amino-azo-benzene
o-Amido-azo-toluol, see 4-(o-Tolylazo)-o-toluidine
Amidobarbituric acid, see Uramil
Amidobenzene, see Aniline
Amido-benzoic acid, see Anthranilic acid
o-Amido-benzoic acid, see Anthranilic acid
Amidobenzol, see Aniline
p-Amidobenzyl-dimethylamine, see N.N-Dimethyl-p-phenylenediamine
Amidocaproic acid, see Leucine
Amido compounds, see Amino compounds
Amido-p-cresol-methyl-ethyl-methyl-omega-sulfonic acid, see (5-Methoxy-2-methyl-1-anilino)-methanesulfonic acid
Amidocumene, see Cumidine
Amidocyanic acid, explosive contg., 1,409,963
p-Amidocymenol, diazotization of, 1,378,939
—, thymol prepared from, 1,378,939
Amidodicyanic acid, explosive contg., 1,409,963
p-Amidodimethylaniline, by-product from vanilla in mfr., 1,345,649
—, formation of, 1,406,719
—, *see also N.N-Dimethyl-p-phenylenediamine*
Amidodimethylbenzene, see Xylidine
p-Amido-diphenyl-imide, see p-Amido-azobenzene
Amidodracylic acid, see p-Amido-benzoic acid
Amidoethane, see Ethylamine
Amidoethylsulfonic acid, see Taurine
Amido-formic acid, see Carbamic acid
Amidoguanidine, *p*-acetophenonarsonic acid derivative of, preparing, 1,425,929
—, *see also Aminoguanidine*
Amidoguanidine nitrate, *p*-acetophenonarsonic acid condensed with, 1,425,929
a-Amido-n-hexoic acid, see Leucine
Amidosopropylbenzene, see Cumidine
Amidol, mercuric acetate, reaction of with, 1,297,685
—, *see also 2.4-Diamino-phenol; Diaminophenol hydrochloride*
Amidomalonylurea, see Uramil
Amidomethane, see Methylamine
1.8-Amidonaphthol-2.4-disulfonic acid, see 8-Amino-1-naphthol-5.7-disulfonic acid
1.8-Amidonaphthol-3.6-disulfonic acid, see 8-Amino-1-naphthol-3.6-disulfonic acid
Amido-naphtholsulfonic acid, carbamides made with, 1,351,888
1.5-Amidonaphthol-7-sulfonic acid, see 5-Amino-1-naphthol-3-sulfonic acid
1.8.5-Amidonaphtholsulfonic acid, see 8-Amino-1-naphthol-4-sulfonic acid
2-Amido-5-naphthol-7-sulfonic acid, carbamides made with, 1,351,888
2.5-Amidonaphthol-7-sulfonic acid, see 6-Amino-1-naphthol-3-sulfonic acid
2.5.7-Amidonaphtholsulfonic acid, see 6-Amino-1-naphthol-3-sulfonic acid
2.8-Amidonaphthol-6-sulfonic acid, see 7-Amino-1-naphthol-3-sulfonic acid
Amidophenols, see Aminophenols
Amido-(di)phenol, see Amidol
o-Amido-phenol, see o-Aminophenol
p-Amido-phenol, see p-Amino-phenol
o-Amido-phenol-p-sulfonic acid, see 2-Amino-phenol-4-sulfonic acid
p-Amido-phenylglycine, see N-(p-Amino-phenyl)-glycine
m-Amidophenyl-a-naphthylamine, see m-Amino-phenyl-a-naphthylamine
Amidopyrine, see Pyramidone
Amidosalicylic acid, see Aminosalicylic acid
Amidosuccinamic acid, see Asparagin
Amidosuccinic acid, see Asparaginic acid
Amidothiophenols, flotation by, chalcocite of, 1,364,307
—, —, chalcopyrite of, 1,364,307
—, —, minerals of, 1,364,307
—, —, porphyry ores of, 1,364,307
—, flotation process using, 1,364,307
Amidotoluene, see Toluidine
Amidoxylene, see Xylidine
Amines, absorbing, hydrochloric acid for, 1,465,677
—, —, sulfuric acid for, 1,465,677
—, accelerator in rubber vulcanization, 1,440,962; 1,440,963
—, acetaldehyde made with, 1,511,754
—, alcohol made with, 1,511,754
—, aldehydes, compounds of and, 1,417,970
—, aliphatic, accelerator in rubber vulcanization, 1,440,962; 1,440,963
—, —, rubber vulcanization accelerator from, 1,296,469
—, alkyl, catalyst in cellulose acetate mfr., 1,445,382
—, —, cellulose acetate made with, 1,445,382
—, aniline black made with, 1,350,600
—, anthraquinone derivatives made with, 1,437,783
—, aromatic, alkylating, 1,429,714
—, —, carboxylic acids of, dyestuff made with, 1,202,821
—, —, —, naphthazarin, condensation product of and, 1,202,821
—, —, dyestuff made with, 1,202,821
—, —, mfr. of, aromatic hydrocarbon halides for, 1,445,637
—, —, —, catalyst for, cobalt as, 1,456,969
—, —, —, —, copper as, 1,456,969
—, —, —, —, iridium as, 1,456,969

Amines, aromatic, mfr. of, catalyst for, iron as, 1,456,969
—, —, —, —, mfr. of, alkali compounds for, 1,207,802
—, —, —, —, —, aluminum oxide for, 1,207,802
—, —, —, —, —, ammonium carbonate for, 1,207,802
—, —, —, —, —, asbestos for, 1,207,802
—, —, —, —, —, carbon monoxide for, 1,207,802
—, —, —, —, —, cobalt for, 1,207,802
—, —, —, —, —, copper for, 1,207,802
—, —, —, —, —, copper, pyrogenetic, for, 1,207,802
—, —, —, —, —, copper carbonate for, 1,207,802
—, —, —, —, —, copper formate for, 1,207,802
—, —, —, —, —, copper nitrate for, 1,207,802
—, —, —, —, —, copper oxalate for, 1,207,802
—, —, —, —, —, copper salts for, 1,207,802
—, —, —, —, —, hydrogen for, 1,207,802
—, —, —, —, —, iron for, 1,207,802
—, —, —, —, —, iron carbonate for, 1,207,802
—, —, —, —, —, iron oxide for, 1,207,802
—, —, —, —, —, iron salt for, 1,207,802
—, —, —, —, —, kieselguhr for, 1,207,802
—, —, —, —, —, magnesia for, 1,207,802
—, —, —, —, —, magnesium oxide for, 1,207,802
—, —, —, —, —, metal oxide for, 1,207,802
—, —, —, —, —, nickel for, 1,207,802
—, —, —, —, —, platinum for, 1,207,802
—, —, —, —, —, process for, 1,207,802
—, —, —, —, —, pumice for, 1,207,802
—, —, —, —, —, silver oxide for, 1,207,802
—, —, —, —, —, silver salt for, 1,207,802
—, —, —, —, —, sodium silicate for, 1,207,802
—, —, —, —, —, watergas for, 1,207,802
—, —, —, —, —, zinc carbonate for, 1,207,802
—, —, —, —, —, zinc oxide for, 1,207,802
—, —, —, —, —, zinc salt for, 1,207,802
—, —, —, —, nickel as, 1,456,969
—, —, —, —, osmium as, 1,456,969
—, —, —, —, platinum as, 1,456,969
—, —, —, —, tin as, 1,456,969
—, —, —, —, tin oxide as, 1,456,969
—, —, naphthazarin, condensation product of and, 1,202,821
—, —, orthosulfonic acids of, preparation of. 1,441,655
—, —, rubber vulcanization accelerator from, 1,296,469
—, —, sulfonic acids of, dyestuff made with, 1,202,821
—, —, —, naphthazarin, condensation product of, and, 1,202,821
—, —, vulcanizing accelerators, 1,440,961
—, —, vulcanization accelerator made with, 1,510,074
—, aryl-, dyestuff from, 1,426,522
—, azo colors from, 1,462,613
—, benzene made with, 1,282,906
—, bitumen vulcanizing accelerator, 1,464,481
—, bivinyl made with, 1,282,906
—, carbon tetrachloride, freezing point of mixture of and, 1,243,149; 1,270,393; 1,270,394; 1,270,395; 1,270,396 1,270,397
—, carbon tetrachloride freezing point affected by, 1,292,743; 1,292,744
Amines, catalyst, *b*-bromethyl-*p*-nitrobenzoate made with, 1,260,289
—, —, ethylene glycol di-*p*-nitrobenzoate made with, 1,260,289
—, cement, Portland, waterproofing of with, 1,255,116
—, checks, writing of, using, 1,514,222
—, chlorosulfates of, preparing, 1,441,655
—, diazotized, dye from ureid of aminonaphthol compounds and, 1,308,071
—, diazotizing, 1,333,700
—, dibutyl dixanthate, action of and, 1,491,021
—, 3-dimethylaminomethyl-3-octanol made with, 1,150,251
—, diolefin made with, 1,282,906
—, documents, printing of, using, 1,514,222
—, drier contg., 1,278,290
—, dyeing process using, 1,333,700
—, dyestuff made with, 1,128,813; 1,129,574; 1,326,367; 1,350,600
—, ethane made with, 1,282,906
—, ethylene made with, 1,282,906
—, fire-extinguisher made with, carbon tetrachloride and, 1,243,149; 1,270,393; 1,270,394; 1,270,395; 1,270,396; 1,270,397
—, flotation process using, 1,364,308
—, gasolene made with, 1,282,906
—, glycerol made with, 1,511,754
—, gum, artificial, made with, 1,225,748; 1,225,749; 1,225,750
—, insulation, electric, made with, 1,159,257
—, isoprene made with, 1,282,906
—, kerosene made with, 1,282,906
—, linseed oil substitute made with, 1,278,290
—, mfr. of, air for, 1,504,730
—, —, apparatus for, 1,504,730
—, —, blood for, 1,504,730
—, —, bone for, 1,504,730
—, —, distillery slop for, 1,504,730
—, —, distillery waste for, 1,504,730
—, —, fullers earth for, 1,504,730
—, —, kieselguhr for, 1,504,730
—, —, lime for, 1,504,730
—, —, limestone for, 1,504,730
—, —, nut shells for, 1,504,730
—, —, process for, 1,504,730
—, —, sawdust for, 1,504,730
—, methyl sulfites of, preparing, 1,426,348
—, olefin made with, 1,282,906
—, paint vehicle made with, 1,278,290
—, paper, safety, made using, 1,509,872
—, phenol aldehyde condensate made with, 1,187,230; 1,187,232; 1,188,439; 1,225,748; 1,225,749; 1,225,750; 1,228,428; 1,252,507
—, phthalimides made with, 1,450,678
—, piperylene made with, 1,282,906
—, primary, aniline black made with, 1,277,056; Re-14,824
—, —, dyestuff made with, 1,277,056; Re-14,824;
—, —, rubber vulcanization accelerator from, 1,296,469
—, propylene made with, 1,282,906
—, retting liquors as source of, 1,344,719
—, rubber, hard, made using, 1,507,594
—, rubber article preserved using, 1,422,115
—, rubber preserved using, 1,422,115

Amines, rubber substitute made with, 1,159,257; 1,159,258
—, secondary, hydroxy-alkylamine made with, 1,498,781; 1,498,782
—, —, rubber vulcanization accelerator from, 1,296,469
—, —, vulcanization accelerator made with, 1,453,515
—, substituted, mfr. of, 1,429,714
—, sulfur made with, 1,479,852
—, thiourethane made with, 1,491,021
—, varnish made with, 1,188,439; 1,159,257; 1,159,258
—, vulcanization accelerator, 1,510,652
—, vulcanization process using, 1,249,272; 1,507,594
—, vulcanizing accelerator made with, 1,417,970; 1,473,285
—, *see also Anime*
Amine aldehyde condensate, celluloid substitute made with, 1,217,027
—, cellulose ethers composition of and, 1,217,028
—, ethyl cellulose, composition of and, 1,217,028
—, filament, artificial, made with, 1,217,028
—, film made with, 1,217,027
—, gelatin substitute made with, 1,217,027
—, hair, artificial, made with, 1,217,028
—, silk, artificial, made with, 1,217,028
Amine bisulfates, cellulose acetate made with, 1,280,974
Amine formaldehyde condensate, aluminum chloride combined with, 1,444,865
—, calcium acetate combined with, 1,444,865
—, cobalt chloride combined with, 1,444,865
—, lead acetate combined with, 1,444,865
—, magnesium acetate combined with, 1,444,865
—, oleic acid combined with, 1,444,865
—, palmitic acid combined with, 1,444,865
—, preparing, 1,444,865
—, sodium acetate combined with, 1,444,865
—, stearic acid combined with, 1,444,865
—, vulcanizing accelerator of oleic acid and, 1,444,865
—, vulcanizing accelerator of palmitic acid and, 1,444,865
—, vulcanizing accelerator of stearic acid and, 1,444,865
—, zinc acetate combined with, 1,444,865
—, zinc chloride combined with, 1,444,865
—, zinc hydroxide combined with, 1,444,865
Amines sulfates, producing of, 1,465,677
Aminoacetal, 2-amino-*a*-aminoethyl-4-hydroxy-benzyl alcohol made with, 1,432,291
—, *b*-amino-*a*-(carboxy-trihydroxy-phenyl)-ethanol made with, 1,432,291
—, *b*-amino-*a*-(*o*-dihydroxyphenyl)-ethanol made with, 1,432,291
—, *b*-amino-*a*-(trihydroxy-phenyl)-ethanol made with, 1,432,291
—, *b.b*-bis-(4-hydroxy-3-iso-propyl-2-methyl-phenyl)-ethylamine, 1,432,291
—, *b.b*-bis(2-hydroxy-naphthyl)-ethylamine made with, 1,432,291
—, *b.b*-bis(4-hydroxy-phenyl)-ethylamine made with, 1,432,291
—, *b*-methylamino-bis-*a*-(*o*-dihydroxyphenyl)-ethane made with, 1,432,291
Amino acetamide, see Glycinamide
m-Amino-acetanilide, dyestuff made with, 1,503,044
p-Amino-acetanilide, dye made with, 1,314,928; 1,378,388
—, dyestuff made with, 1,268,455; 1,283,231; 1,292,385; 1,362,936; 1,363,886; 1,365,040; 1,378,388; 1,505,568
—, dyestuff, azo, made with, 1,323,285
—, mfr. of, calcium chloride for, 1,358,324
—, —, hydrochloric acid for, 1,358,324
—, —, hydrogen sulfide for, 1,358,324
—, —, iron for, 1,358,324
—, —, iron(ous) chloride for, 1,358,324
—, —, *p*-nitro-acetanilide for, 1,358,324
—, —, process for, 1,358,324
—, —, sodium chloride for, 1,358,324
—, preparation of, 1,358,324
—, printing paste made with, 1,157,705
—, urea derivatives of, dyestuff made with, 1,483,447
Amino-acetaniside, dyestuff made with 1,498,417
3-Amino-*p*-acetaniside, dyestuff made with, 1,498,417
4-Amino-*o*-acetaniside, dyestuff made with, 1,504,134
Amino-acetic acid, see Glycine
Aminoacetonitrile, see Glycinonitrile
Amino-aceto-nitrile sulfate, ethylenediamine made with, 1,239,867
p-Aminoacetophenone, acetophenone-arsenious acid made with, 1,472,778
5-Amino-2-acetylamino-1-anisole, see 4-Amino-o-acetaniside
2-Amino-4-acetylamino-4'-methyl-5' sulfo-1.1'-diphenylsulfone, see 4-Acetylamino-2-amino-4-methyl-5'-sulfo-1.1'-diphenylsulfone
Amino acids, dentifrice made with, 1,470,794
—, ferment contg., 1,253,334
—, phthalimides made with, 1,450,678
—, rubber, reclaiming of, using, 1,189,282
—, soya bean sauce contg., 1,332,448
a-Amino-acids, silver salts, action of on, 1,417,167
Amino-alcohols, aromatic, optically active, preparation of, 1,423,101
—, quinoline series, preparation of, 1,434,306
Amino alcohol bitartrates, amino alcohols from, 1,423,101
Aminoalcohol tartrates, preparation of, 1,423,101
b-Amino-alizarin, compounds $C_{21}H_{10}O_4NCl$ made with, 1,138,670
—, compound $C_{22}H_{13}O_4N$ made with, 1,138,670
—, compound $C_{28}H_{17}O_4N$ made with, 1,138,670
—, compound $C_{28}H_{18}O_4N_2$ made with, 1,138,670
—, compound $C_{28}H_{18}O_7N_2S$ made with, 1,138,670
—, dyestuff made with, 1,138,670
—, oxazine derived from, dyestuff made with, 1,138,670
—, oxazole derived from, compound $C_{28}H_{18}O_4N_2$ made with, 1,138,670
—, —, compound $C_{28}H_{18}O_7N_2S$ made with, 1,138,670
—, —, dyestuff made with, 1,138,670

Amino-alkoxy-benzoic acid, alkamine ester of, mfr. of, 1,317,250
Amino-(*m*-amino-benzoylamino)-benzene sulfonic acid, dyestuff made with, 1,153,555
2-Amino-4-(*m'*-amino-benzoylamino)-benzene-sulfonic acid, dyestuff made with, 1,153,555
4-Amino-2-(m-amino-benzoylamino)-1-methoxy-benzene, see N¹-m-Amino-benzoyl-6-methoxy-phenylenediamine
2-Amino-6-(*m*-amino-benzoyl)-amino-1-naphthol-3-sulfonic acid, dyestuff reduction product, 1,365,706
2-Amino-6-*p*-aminobenzoylamino-1-naphthol-3-sulfonic acid, dyestuff reduction product, 1,150,675
5-Amino-1-(amino-carboxy-hydroxy-phenyl)-benzimidazole, dyestuff reduction product, 1,127,261
2-Amino-*a*-aminomethyl-4-hydroxy-benzyl alcohol, mfr. of, aminoacetal for, 1,432,291
—, —, *m*-amino phenol for, 1,432,291
—, —, hydrochloric acid for, 1,432,291
—, —, process for, 1,432,291
2-Amino-8-(1'amino-2'-naphthol-6'-sulfonyl-amino)-naphthol-3.5-disulfonic acid, dyestuff reduction product, 1,128,814
b-Amino-a-(2-amino-4-oxyphenyl)-a-oxy-ethane, see 2-Amino-a-aminomethyl-4-hydroxy-benzyl alcohol
2-Amino-5-(amino-phenyl)-acridine, see Chrysaniline
6-Amino-2-*m*-aminophenylazo-1-naphthol-3-sulfonic acid, dyestuff made with, 1,150,825
8-Amino-2-(*m*-aminophenyl)-9-hydroxy-a-naphthimidazole-4.7-disulfonic acid, dyestuff reduction product, 1,241,153
7-Amino-2-(*m*-amino-phenyl)-6-hydroxy-*a*-naphthimidazole-8-sulfonic acid, dyestuff reduction product, 1,150,656; 1,160,406
4-Amino-1-*m*-aminophenyl-3-methyl-5-pyrazolene, dyestuff reduction product, 1,147,803
4-Amino-1-anilido-anthraquinone-3-sulfo-2'-carboxylic acid, see 4-Amino-1-(2'-carboxy-anilino)-anthraquinone-3-sulfonic acid
Amino-aniline, see Phenylenediamine
3-Amino-aniline-2-sulfonic acid, see 2.6-Diamino-benzenesulfonic acid
4-Amino-aniline-2-sulfonic acid, see 2.5-Diamino-benzenesulfonic acid
3-Aminoaniline-2-sulfonic acid azo-(1)-2-amino-8-naphthol-6-sulfonic acid, sodium salt of, dyestuff made with, 1,408,405
4-Aminoaniline-2-sulfonic acid azo-(1)-2-amino-8-naphthol-6-sulfonic acid, sodium salts of, dyestuff made with, 1,408,405
1-Amino-4-anilino-anthraquinone, mfr. of, 1-amino-4-chlor-anthraquinone for, 1,394,851
—, —, aniline for, 1,394,851
—, —, process for, 1,394,851
1-Amino-4-anilino-2-methyl-anthraquinone, anthraquinone derivatives made with, 1,394,851
—, mfr. of, acetic acid, glacial for, 1,394,851
—, —, acetone for, 1,394,851
—, —, aluminum for, 1,394,851
—, —, 1-amino-4-chlor-2-methyl-anthraquinone for, 1,394,851
1-Amino-4-anilino-2-methyl-anthraquinone, mfr. of, 1-amino-2-methyl-anthraquinone for, 1,394,851
—, —, aniline for, 1,394,851
—, —, hydrochloric acid for, 1,394,851
—, —, magnesium for, 1,394,851
—, —, nitrogen for, 1,394,851
—, —, process for, 1,394,851
—, —, sodium amide for, 1,394,851
2-Amino-6-anilino-1-naphthol-3-sulfonic acid, dyestuff reduction product, 1,498,316
m-Aminoanisic acid, alkamine ester of, mfr. of, 1,317,250
—, —, solvent for, acetone as, 1,317,250
—, —, —, alcohol as, 1,317,250
—, —, —, benzene as, 1,317,250
—, —, —, ether as, 1,317,250
—, —, —, water as, 1,317,250
4-Amino-*o*-anisidine, dyestuff reduction product, 1,504,134
5-Amino-*o*-anisidine, dyestuff made with, 1,453,021
Amino-anisole, see Anisidine
—, see also Methoxy-aniline
1-(3'-(3"-Amino-*p"*-anisoyl)-amino-*p'*-anisoyl)-amino-naphthalene-4.6-disulfonic acid, compound $C_{53}H_{44}O_{21}N_6S_4$, made with, 1,218,654; 1,218,655
—, mfr. of, 1-amino-naphthalene-4.6-disulfonic acid for, 1,218,654; 1,218,655
—, —, hydrochloric acid for, 1,218,654; 1,218,655
—, —, iron for, 1,218,654; 1,218,655
—, —, 3-nitro-*p*-anisoyl chloride for, 1,218,654; 1,218,655
—, —, process for, 1,218,654; 1,218,655
Aminoanisoyl-aminoanisoyl-1-amino-8-naphthol-4.6-disulfonic acid, see also 8-(3'-(3"-Amino-p"-anisoyl) amino-p'-anisoylamino)-1-naphthol-3.5-disulfonic acid
8-(3'-(3"-Amino-*p"*-anisoyl)-amino-p'-anisoyl-amino)-1-naphthol-3.5-disulfonic acid, compound, $C_{48}H_{38}O_{20}N_6S_3$, made with, 1,218,654
—, therapeutic compound made with, 1,218,654
—, thiourea made with, 1,218,654
—, urea made with, 1,218,654
8-(3'-(3"-Amino-*p"*-anisoyl)-amino-*p'*-anisoyl)-amino-1-naphthol-3.5-disulfonic acid, compound, $C_{53}H_{44}O_{23}N_6S_4$, made with, 1,218,655
—, —, $C_{55}H_{48}O_{23}N_6S_4$, made with, 1,218,655
—, mfr. of, 8-amino-1-naphthol-3.5-disulfonic acid for, 1,218,655
—, —, *m*-nitro-anisoyl chloride for, 1,218,655
—, —, process for, 1,218,655
—, therapeutic compound made with, 1,218,655
—, thiourea made with, 1,218,655
—, ureas made with, 1,218,655
—, *urea derivatives of, see Compound* $C_{53}H_{44}O_{23}N_6S_4$
8-(3'-(3"-Amino-*p"*-anisoylamino)-*p'*-anisoyl-amino)-1-naphthol-3.5-disulfonic acid, compound, $C_{53}H_{44}O_{23}N_6S_4$, made with, 1,308,071
—, dyestuff made with, 1,308,071
—, mfr. of, 8-amino-1-naphthol-3.5-disulfonic acid for, 1,308,071
—, —, 3-nitro-*p*-anisoyl chloride for, 1,308,071
—, —, process for, 1,308,071
—, therapeutic compound made with, 1,308,071
—, ureas made with, 1,308,071

3-Amino-p-anisyl benzyl ether, see 5-Benzyloxy-o-anisidine
Amino-anthracene, see Anthramine
o-Aminoanthraquinone-mercaptan, dyestuff made with, 1,126,475
Amino-anthraquinone, (acetylamino)- anthraquinone made with, 1,266,896
—, benzoylation of, 1,296,602
—, dyestuff made with, 1,202,821; 1,216,921; 1,505,569; 1,506,514
—, naphthazarin, condensation product of and, 1,202,821
a-Amino-anthraquinone, see 1-Amino-anthraquinone
b-Amino-anthraquinone, see 2-Amino-anthraquinone
1-Amino-anthraquinone, algol-yellow WG from, 1,296,602
1-Aminoanthraquinone, alkylating, 1,426,380
—, anthraquinone derivatives made with, 1,394,851; 1,437,783
—, 5-anthraquinonyl-amino-1-naphthol made with, 1,144,577
—, benzoylation of, 1,296,602
—, compound, $C_{24}H_{12}O_4NBr$, made with, 1,518,665
—, —, $C_{24}H_{13}O_4N$, made with, 1,518,665
—, —, $C_{38}H_{18}O_4N_3Br$, made with, 1,518,665
—, —, $C_{38}H_{19}O_4N_3$, made with, 1,518,665
—, —, $C_{41}H_{18}O_3N_2$, made with, 1,216,921
—, dyestuff made with, 1,216,921; 1,215,359; 1,436,770; 1,505,568; 1,505,569; 1,506,514 1,518,665
—, ethylating, 1,426,380
—, methylating, 1,426,380
2-Aminoanthraquinone, alizarine from, 1,430,277
—, alkali fusion of, 1,430,277
—, alkylating, 1,426,380
—, 2-amino-3-chlor-anthraquinone made with, 1,452,774
—, amino-chlorbenzoylbenzoic acid for mfr. of, 1,452,774
—, 2-amino-1.3-dichlor-anthraquinone made with, 1,452,774
—, anthraquinone derivative made with, 1,394,851; 1,437,783
—, brominating, process for, 1,452,774
—, chlorinating, process for, 1,452,774
—, *N*-dihydro-1:2:1′:2′:anthraquinoneazine from potassium hydroxide and, 1,451,270
—, dyestuff made with, 1,183,378; 1,188,545; 1,215,359; 1,430,277; 1,452,774; 1,459,536; 1,490,646; 1,505,568
—, flavanthrene made with, 1,478,061; 1,490,646
—, flavanthrene antimony pentachloride salt made with, 1,478,061
—, indanthrene made with, 1,430,277; 1,451,270; 1,509,846; 1,518,051
—, mfr. of, 1,338,363; 1,338,364; 1,340,603; 1,452,774
—, —, ammonia for, 1,340,603
—, —, ammonium chloride for, 1,338,363; 1,338,364; 1,340,603
—, —, ammonium hydroxide for, 1,255,719; 1,338,363; 1,338,364
—, —, anthraquinone-2-sulfonic acid for, 1,338,363; 1,338,364; 1,340,603
2-Aminoanthraquinone, mfr. of, *b*-anthraquinone sulfonic acid for, 1,255,719
—, —, barium chloride for, 1,338,363; 1,338,364; 1,340,603
—, —, calcium chloride for, 1,338,363; 1,338,364; 1,340,603
—, —, dinitrobenzene for, 1,255,719
—, —, dinitronaphthalene for, 1,255,719
—, —, dinitronaphthalene sulfonic acid for, 1,255,719
—, —, dinitrotoluene sulfonic acid for, 1,255,719
—, —, hydrochloric acid for, 1,338,363; 1,338,364; 1,340,603
—, —, magnesium chloride for, 1,338,363; 1,340,603
—, —, nitrobenzene for, 1,255,719
—, —, nitrobenzene sulfonic acid for, 1,255,719
—, —, nitro-hydrocarbon for, 1,255,719
—, —, nitronaphthalene for, 1,255,719
—, —, nitronaphthalene sulfonic acid for, 1,255,719
—, —, nitrotoluene for, 1,255,719
—, —, nitrotoluene sulfonic acid for, 1,255,719
—, —, process for, 1,255,719; 1,338,363; 1,338,364; 1,340,603
—, —, sodium anthraquinone-2-sulfonate for, 1,340,603
—, —, sodium *b*-anthraquinone sulfonate for, 1,225,719
—, —, sodium carbonate for, 1,338,363; 1,338,364; 1,340,603
—, —, sodium cloride for, 1,255,719; 1,340,603
—, —, sodium nitrobenzene sulfonate for, 1,255,719
—, methylating, 1,426,380
1-Amino-anthraquinone-2-aldehyde, compound $C_{30}H_{18}O_4N_4$, made with, 1,285,727
—, dyestuff made with, 1,285,726; 1,285,727
—, mfr. of, acetic acid for, 1,285,726
—, —, 1-amino-2-methyl-anthraquinone for, 1,285,726
—, —, hydrochloric acid for, 1,285,726
—, —, *b*-naphthylamine for, 1,285,726
—, —, nitrobenzene for, 1,285,726
—, —, potassium carbonate for, 1,285,726
—, —, process for, 1,285,726
—, —, sulfuric acid for, 1,285,726
1-Amino-anthraquinone-2-mercaptan, dyestuff made with, 1,126,475
2-Amino-anthraquinone-1-mercaptan, dyestuff made with, 1,126,475
o-Amino-anthraquinone-mercaptan, dyestuff made with, 1,126,475
4-Amino-antipyrine, benzoyl-pyruvic acid, condensation product of and, 1,151,885
—, compound, $C_{18}H_{17}O_4N_3$, made with, 1,151,885
—, —, $C_{21}H_{19}O_4N_3$, made with, 1,151,885
4-Amino-2-argentomercapto-benzene-1-carboxylic acid, see 4-Amino-S-argento-thiosalicylic acid
4-Amino-S-argento-thiosalicylic acid, mfr. of, acetone for, 1,439,624
—, —, 4-amino-thiosalicylic acid for, 1,439,624
—, —, ammonium hydroxide for, 1,439,624
—, —, copper(ous) thiocyanate for, 1,439,624
—, —, 4-nitro-anthranilic acid for, 1,439,624
—, —, potassium thiocyanate for, 1,439,624

4-Amino-*S*-argento-thiosalicylic acid, mfr. of, process for, 1,439,624
—, —, silver acetate for, 1,439,624
—, —, silver chloride for, 1,439,624
—, —, silver fluoride for, 1,439,624
—, —, silver nitrate for, 1,439,624
4-Amino-arsenophenyl-dimethyl-pyrazolone(?), carbonate of, arsenic compound made with, 1,431,671
—, methylene-sulfoxalate of, arsenic compound made with, 1,431,671
4-Amino-arsenophenyldimethylpyrazolon carbamate, arseno-benzene derivatives prepared from, 1,431,671
4-Amino-arsenophenyldimethylpyrazolone-glycine, sodium salt of, arseno-benzene derivatives prepared from, 1,431,671
4-Amino-arsenophenyldimethylpyrazolon methylene sulfoxylate, arseno-benzene derivatives prepared from, 1,431,671
o-Aminoarylmercaptan, dye, sulfur from, mfr. of, 1,452,805
—, sulfur dye from, mfr. of, 1,452,805
Amino-aryl-pyrazolone, dyestuff made with, 1,123,263
Amino-aryl-sulfonic acid, dye reduction product, 1,319,852
o-Amino-aryl-thoisulfonic acid, dye, sulfur from, mfr. of, 1,452,805
—, sulfur dye from, mfr. of, 1,452,805
4-Amino-2-auromercaptobenzene-1-carboxylic acid, see 4-Amino-S-auro-thiosalicylic acid
4-Amino-S-auro-thiosalicylic acid, mfr. of, 4-amino-2-mercapto-benzoic acid for, 1,207,284
—, —, 2-amino-4-nitro-benzoic acid for, 1,207,284
—, —, charcoal, animal, for, 1,207,284
—, —, copper-bronze for, 1,207,284
—, —, hydrochloric acid for, 1,207,284
—, —, nitro-2-thiocyano-benzoic acid, for, 1,207,284
—, —, potassium aurobromide for, 1,207,284
—, —, potassium thiocyanate for, 1,207,284
—, —, process for, 1,207,284
—, —, sodium hydroxide for, 1,207,284
—, —, sodium nitrate for, 1,207,284
—, —, sodium sulfide for, 1,207,284
—, —, sulfuric acid for, 1,207,284
—, sodium 4-amino-2-auromercapto-benzoate made with, 1,207,284
—, sodium salt of, see Sodium 4-amino-S-auro-thiosalicylate
Amino-azo-benzene, dye from, 1,314,928
—, dyestuff made with, 1,126,489; 1,188,545; 1,251,368; 1,251,369
—, see also Phenylazo-aniline; Phenylazo-benzene
p-Amino-azo-benzene, dyestuff made with, 1,129,574; 1,362,936
—, flotation by, chalcocite of, 1,364,305
—, —, chalcopyrite of, 1,364,305
—, —, copper sulfide of, 1,364,305
—, —, minerals of, 1,364,305
—, —, sulfide ores of, 1,364,305
—, —, zinc lead ore of, 1,364,305
—, flotation process using, 1,364,305
4-Aminoazo-benzene-2.3′-dicarboxylic acid, dyestuff from, 1,338,506
4-Amino-azo-benzene-3.3′-dicarboxylic acid, preparation of, 1,338,506
Aminoazobenzene disulfonic acid, dyestuff made with, 1,150,675
4-Amino-azobenzene-3.4-disulfonic acid, dyestuff made with, 1,509,442
p-Aminoazobenzene hydrochloride, flotation by, chalcocite of, 1,364,305
—, —, chalcopyrite of, 1,364,305
—, —, copper sulfide of, 1,364,305
—, —, minerals of, 1,364,305
—, —, sulfide ores of, 1,364,305
—, —, zinc lead ores of, 1,364,305
Aminoazobenzene perchlorate, explosive contg., 1,457,709
—, preparation of, 1,457,709
p-Aminoazobenzene sulfate, flotation by, chalcocite of, 1,364,305
—, —, chalcopyrite of, 1,364,305
—, —, copper sulfide of, 1,364,305
—, —, minerals of, 1,364,305
—, —, sulfide ores of, 1,364,305
—, —, zinc-lead ores of, 1,364,305
4-Aminoazobenzene-5′-sulfo-3.3′-dicarboxylic acid, dyestuff from, 1,338,506
Aminoazobenzene-sulfonic acid, dyestuff made with, 1,126,489
Amino azo-compounds, dyestuff made with, 1,145,072; 1,505,569; 1,506,514
—, flotation by minerals of, 1,364,305
"Aminoazo-*p*-cresetol," dyestuff made with, 1,505,568
Amino-azo-cymene, dye from, 1,314,928
Aminoazonaphthalene, flotation by, chalcocite of, 1,364,305
—, —, chalcopyrite of, 1,364,305
—, —, copper sulfide of, 1,364,305
—, —, minerals of, 1,364,305
—, —, sulfide ores of, 1,364,305
—, —, zinc-lead ores of, 1,364,305
—, flotation process using, 1,364,305
Aminoazonaphthalene hydrochloride, flotation by, chalcocite of, 1,364,305
—, —, chalcopyrite of, 1,364,305
—, —, copper sulfide of, 1,364,305
—, —, minerals of, 1,364,305
—, —, sulfide ores of, 1,364,305
—, —, zinc-lead ores of, 1,364,305
Aminoazonaphthalene sulfate, flotation by, chalcocite of, 1,364,305
—, —, chalcopyrite of, 1,364,305
—, —, copper sulfide of, 1,364,305
—, —, minerals of, 1,364,305
—, —, sulfide ores of, 1,364,305
—, —, zinc-lead ores of, 1,364,305
Amino-azo-naphthol-disulfonic acid, dyestuff made with, 1,282,356
Amino-azo-toluene, dye from, 1,314,928
m-Amino-azo-toluene, dyestuff made with, 1,169,267; 1,457,114
o-Aminoazotoluene, see 4-(o-Tolylazo)-o-toluidine
p-Aminoazotoluene, dyestuff made with, 1,362,936
m-Amino-benzaldehyde, bisulfite compound of, *m*-hydroxy-benzaldehyde made with, 1,419,695
—, diazotizing, 1,419,695

m-Amino-benzaldehyde, *m*-hydroxy-benzaldehyde made with, 1,419,695
—, mfr. of, acetic acid for, 1,499,761
—, —, iron dust for, 1,499,761
—, —, hydrochloric acid for, 1,499,761
—, —, *m*-nitro-benzaldehyde for, 1,499,761
—, —, process for, 1,499,761
—, —, sodium bisulfite for, 1,499,761
—, —, sodium carbonate for, 1,499,761
—, —, sodium hydroxide for, 1,499,761
—, —, sulfuric acid for, 1,499,761
—, sulfite addition compound of, 1,419,695
p-Aminobenzaldehyde, *p*-benzaldehyde-arsenious acid made with, 1,472,778
m-Amino-benzamide, dyestuff made with, 1,299,070
—, gallocyanine dye, condensation product made with, 1,299,070
—, prune, condensation product with of, 1,299,070
p-Aminobenzamide, coelestin blue, condensation product of with, 1,299,070
—, dyestuff made with, 1,299,070
—, gallocyanine dye, condensation product of with, 1,299,070
Amino-*iso*-benzanthrone, dyestuff made with, 1,169,404
Aminobenzene, see Aniline
Amino-benzene-arsinic acid, see Arsanilic acid
Amino-benzene-arsonic acid, see Arsanilic acid
4-Amino-benzenearsonic acid, see Arsanilic acid
m-Amino-benzenearsonic acid, see m-Arsanilic acid
p-Aminobenzene-azo-dimethylaniline, see N.N-Dimethyl-p.p'-azobisaniline
p-Aminobenzene-azo-ethyl-a-naphthylamine, see N-Ethyl-?-(p-amino phenylazo)-1-naphthylamine
Amino-benzene-azo-naphthylamine, see (Amino-phenylazo)-naphthylamine
p-Aminobenzene-azo-naphthylamine, see ?-(p'-Amino-phenylazo)-1-naphthylamine
1-Amino-benzene-2.5-disulfonic acid, see 2-Amino-p-benzenedisulfonic acid
2-Amino-*p*-benzenedisulfonic acid, dyestuff made with, 1,496,780
1-Amino-benzene-3-sulfonic acid, see Metanilic acid
1-Amino-benzene-4-sulfonic acid, see 4-Amino-benzenesulfonic acid
2-Amino-benzenesulfonic acid, dyestuff made with, 1,504,469
3-Amino-benzenesulfonic acid, see Metanilic acid
4-Amino-benzenesulfonic acid, see Sulfanilic acid
m-Aminobenzenesulfonic acid, see Metanilic acid
o-Aminobenzene-sulfonic acid, dyestuff made with, 1,128,813; 1,154,826; 1,338,397
p-Amino-benzene-sulfonic acid, see Sulfanilic acid
o-Amino-benzenethiosulfonic acid, dyestuff made with, 1,452,805
—, sulfur dye made with, 1,452,805
m-Amino-benzyl-1.2-naphthylenediamine-5-oxy-7-sulfonic acid, see 2-(m-Aminophenyl)-6-hydroxy-a-naphthimidazole-8-sulfonic acid
m-Aminobenzenyl-1-thio-2-amino-naphthalene-5-oxy-6-sulfonic acid, see 1-(m-aminophenyl)-5-hydroxy-2-naphthothiazole-7-sulfonic acid
Aminobenzimidazole-o-aminosalicylic acid, see 5-Amino-1-(carboxy-hydroxy-phenyl)-benzimidazole
Aminobenzimidazole-p-chlorsalicylic acid, see 5-Amino-1-(3'-carboxy-4'-hydroxy-chlorphenyl)-benzimidazole
Aminobenzimidazole-salicylic acid, see 5-Amino-1-(carboxy-hydroxy-phenyl)-benzimidazole
Aminobenzimidazole-p-sulfosalicylic acid, see 5-Amino-1-(3'-carboxy-4'-hydroxy-sulfophenyl)-benzimidazole
Amino-benzoic acid, mfr. of, nitro-benzoic acid for, 1,492,664
—, —, process for, 1,492,664
2-Amino-benzoic acid, see Anthranilic acid
m-Aminobenzoic acid, dyestuff made with, 1,286,411; 1,338,506; 1,498,315
—, insulation, electric, made with, 1,159,257
—, mfr. of, copper for, 1,492,665
—, —, *m*-nitro-benzoic acid for, 1,492,665
—, —, process for, 1,492,665
—, —, sulfuric acid for, 1,492,665
—, —, tin for, 1,492,665
—, varnish made with, 1,159,258
—, rubber substitute made with, 1,159,257; 1,159,258
—, varnish made with, 1,159,257
o-Amino-benzoic acid, see Anthranilic acid
p-Amino-benzoic acid, alkyl allyl amino alcohol esters of, mfr. of, process for, 1,476,934
—, alkylaminoalkyl esters of, preparing, 1,396,913
—, *allyl esters of, see Allyl p-aminobenzoate*
—, aminoalkyl esters of, preparing, 1,396,913
—, aminopropyl alcohol derivatives, esters of and, 1,474,567
—, *n*-butyl esters of, mfr. of, 1,440,652
—, *di-n-butyl-amino-ethyl alcohol ester of, see Di-n-butyl-amino-ethyl-p-aminobenzoate*
—, di-*n*-butyl-amino-ethyl-*p*-aminobenzoate from, 1,358,750
—, *b-diethylaminoethyl ester of, see Procaine*
—, dyestuff made with, 1,286,411; 1,338,506
—, *ethyl ester of, see Ethyl p-Aminobenzoate*
—, insulation, electric, made with, 1,159,257
—, mfr. of, ammonium bisulfite for, 1,458,715
—, —, ammonium hydrosulfite for, 1,458,715
—, —, ammonium sulfide for, 1,458,715
—, —, copper for, 1,492,665
—, —, fullers earth for, 1,458,715
—, —, hydrochloric acid for, 1,458,715
—, —, nitric acid for, 1,458,715
—, —, *p*-nitro-benzoic acid for, 1,458,715; 1,492,665
—, —, *p*-nitro-toluene for, 1,458,715
—, —, potassium bisulfite for, 1,458,715
—, —, potassium hydrosulfide for, 1,458,715
—, —, potassium sulfide for, 1,458,715
—, —, process for, 1,458,715; 1,492,665
—, —, sodium *p*-amino-benzoate for, 1,458,715

p-Amino-benzoic acid, mfr. of, sodium sulfide for, 1,458,715
—, —, sulfur for, 1,458,715
—, —, sulfuric acid for, 1,492,665
—, —, tin for, 1,492,665
—, rubber substitute made with, 1,159,257
—, varnish made with, 1,159,257
Aminobenzophenone, diaminobenzophenone made with, 1,472,778
p-Aminobenzophenone, benzophenone-arsenious acid made with, 1,472,778
6-(5'-Amino-1.2.3-benzotriazole)-1-naphthol-3-sulfonic acid, see 5-Amino-1-(5'-hydroxy-7'-sulfo-2'-naphthyl)-1.2.3-benzotriazole
5-Amino-1.2.3-benzotriazole-1.4'-salicylic acid, see 5-Amino-1-(3'-carboxy-4'-hydroxy-phenyl)-1.2.3-benzotriazole
p-Aminobenzoxydiethylamino-ethane hydrochloride, see Procaine
1-(m-Aminobenzoylamino)-3-amino-benzene-4-sulfonic acid, see N^1-m-Aminobenzoyl-m-phenylenediamine-4-sulfonic acid
1-(m-Aminobenzoylamino)-3-amino-benzene-4-sulfonic acid, see also 2-Amino-4-(m'-amino-benzoylamino)-benzenesulfonic acid
m-Aminobenzoyl-2-amino-6-amino-5-naphthol-7-sulfonic acid, see 2-Amino-6-(m-aminobenzoyl)-amino-1-naphthol-3-sulfonic acid
Amino-benzoylamino-aniline, see N-(Amino-benzoyl)-phenylenediamine
3-(m-Aminobenzoylamino)-p-anisidine, see N^1 m-Aminobenzoyl-6-methoxy m-phenylene-diamine
1-(*m'*(-*m''*-Amino-benzoylamino)-benzoyl-amino)-8-chlor-naphthalene-3.6 disulfonic acid, compound $C_{49}H_{34}O_{17}N_6S_4Cl_2$, made with, 1,218,655
—, mfr. of, 1-amino-8-chlor-naphthalene-3.6-disulfonic acid for, 1,218,655
—, —, *m*-nitrobenzoyl chloride for, 1,218,655
—, —, process for, 1,218,655
—, therapeutic compound made with, 1,218,655
—, thiourea made with, 1,218,655
—, ureas made with, 1,218,655
—, *urea derivative of, see Compound $C_{49}H_{34}O_{17}N_6S_4Cl_2$*
4-(3'-(3''-Amino-benzoylamino)-benzoyl-amino)-5-ethoxy-naphthalene-2.7-disulfonic acid, compound, $C_{53}H_{44}O_{19}N_6S_4$, made with, 1,218,654; 1,218,655
—, mfr. of, 4-amino-5-ethoxy-naphthalene-2.7-disulfonic acid for, 1,218,654; 1,218,655
—, —, hydrochloric acid for, 1,218,654; 1,218,655
—, —, iron for, 1,218,654; 1,218,655
—, —, *m*-nitro-benzoylchloride for, 1,218,654; 1,218,655
—, —, process for, 1,218,654; 1,218,655
—, *urea derivative of, see compound $C_{53}H_{44}O_{19}N_6S_4$*
1-(p'-(m''-Aminobenzoyl)-amino-benzoyl)-amino-naphthalene-3.6-disulfonic acid, mfr. of, 1-amino-naphthalene-3.6-disulfonic acid, 1,218,654; 1,218,655
—, —, hydrochloric acid, 1,218,654; 1,218,655
—, —, iron for, 1,218,654; 1,218,655
—, —, *m*-nitro-benzoyl chloride for, 1,218,654; 1,218,655
1-(p'-(m''-Aminobenzoyl)-amino-benzoyl)-amino-naphthalene-3.6-disulfonic acid, mfr. of, *p*-nitrobenzoyl chloride for, 1,218,654; 1,218,655
—, —, process for, 1,218,654; 1,218,655
—, therapeutic properties of, 1,218,654; 1,218,655
6-(*m*-Aminobenzoyl-*m*-aminobenzoyl)-amino-1-naphthol-3-sulfonic acid, dyestuff made with, 1,150,675
6-(*p*-Aminobenzoyl-*m*-aminobenzoyl)-amino-1-naphthol-3-sulfonic acid, dyestuff made with, 1,150,675
8-(*m'*-(*m''*-Amino-benzoylamino)-benzoyl-amino)-1-naphthol-3.6-disulfonic acid, compound, $C_{49}H_{36}O_{18}N_6S_5$, made with, 1,218,655
—, —, $C_{49}H_{36}O_{18}N_6S_4$, made with, 1,308,071
—, —, dyestuff made with, 1,218,655; 1,308,071
—, mfr. of, 8-amino-1-naphthol-3.6-disulfonic acid for, 1,218,655
—, —, *m*-nitro-benzoyl chloride for, 1,218,655
—, —, process for, 1,218,655
—, therapeutic compound made with, 1,218,655; 1,308,071
—, thiourea made with, 1,218,655
—, *thiourea derivatives of, see Compound $C_{49}H_{36}O_{18}N_6S_5$*
—, urea made with, 1,218,655; 1,308,071
3-(*m'*-(*m''*-Amino-benzoyl-amino-benzoyl) amino-5-sulfo-salicylic acid, compound, $C_{48}H_{38}O_{20}N_6S_3$, made with, 1,218,654
—, therapeutic compound, made with, 1,218,654
—, thioureas made with, 1,218,654
—, ureas made with, 1,218,654
m'-Aminobenzoyl-2-amino-4-chlor-phenol-6-sulfonic acid, dyestuff made with, 1,127,234
7-Aminobenzoylamino-1-naphthol-3-sulfonic acid, dyestuff made with, 1,126,466
m-Aminobenzoyl-2-Amino-5-naphthol-7-sulfonic acid, see 6-(m-Aminobenzoyl)-amino-1-naphthol-3-sulfonic acid
m-Aminobenzoyl-2.5-aminonaphthol-7-sulfonic acid, see 6-(m-Amino-benzoylamino)-1-naphthol-3-sulfonic acid
m-Aminobenzoyl-2.5.7-aminonaphthol sulfonic acid, see 6-(m-Aminobenzoyl)-amino-1-naphthol-3-sulfonic acid
2-m-Aminozenzoylamino-5-naphthol-7-sulfonic acid; see 6-(m-Aminobenzoyl)-amino-1-naphthol-3-sulfonic acid
6-(*m*-Aminobenzoyl)-amino-1-naphthol-3-sulfonic acid, compound, $C_{17}H_{14}O_4N_3S$, dyestuff made with, 1,265,030; 1,265,031
6-(*m*-Aminobenzoylamino)-1-naphthol-3-sulfonic acid, dyestuff made with, 1,126,466; 1,150,656; 1,150,675; 1,160,406; 1,185,413; 1,210,751; 1,282,354; 1,282,355; 1,282,356; 1,292,385; 1,342,134; 1,362,936; 1,365,706
8-*m*-Aminobenzoylamino-1-naphthol-3.6-disulfonic acid, dyestuff made with, 1,183,831
8-*m*-Aminobenzoylamino-1-naphthol-5-sulfonic acid, dyestuff made with, 1,183,831
p-Aminobenzoyl-2.5-aminonaphthol-7-sulfonic acid, see 6-(p-Aminobenzoylamino)-1-naphthol-3-sulfonic acid
p-Aminobenzoyl-2.5.7-aminonaphthol-sulfonic acid, see 6-(p-Aminobenzoylamino)-1-naphthol-3 sulfonic acid

6-*p*-Aminobenzoylamino-1-naphthol-3-sulfonic acid, dyestuff made with, 1,150,675; 1,160,406; 1,292,385; 1,342,134
—, —, compound, copper, properties of, 1,292,385
6-(*m*-Aminobenzoyl)amino-1-naphthol-3-sulfonic acid, dyestuff from, copper compound of, properties of, 1,292,385
7-*p*-Aminobenzoylamino-1-naphthol-3-sulfonic acid, dyestuff made with, 1,150,675
8-(*p*-Amino-benzoylamino)-1-naphthol-3.5-disulfonic acid, compound, $C_{35}H_{26}O_{17}N_4S_4$, made with, 1,218,655; 1,308,071
—, dyestuff made with, 1,218,655; 1,308,071
—, mfr. of, acetic acid for, 1,218,655
—, —, 8-amino-1-naphthol-3.5-disulfonic acid for, 1,218,655; 1,308,071
—, —, iron for, 1,218,655
—, —, *p*-nitro-benzoyl-chloride for, 1,218,655; 1,308,071
—, —, process for, 1,218,655; 1,208,071
—, therapeutic compound made with, 1,218,655; 1,308,071
—, thioureas made with, 1,218,655
—, ureas made with, 1,218,655; 1,308,071
—, urea derivative of, see Compound, $C_{35}H_{26}O_{17}N_4S_4$
8-*p*-Aminobenzoylamino-1-naphthol-3.6-disulfonic acid, dyestuff made with, 1,183,831
m-Aminobenzoyl-2-amino-5-oxynaphthalene-7-sulfonic acid, see 6-(m-Aminobenzoyl)-amino-1-naphthol-3-sulfonic acid
m'-Aminobenzoyl-2-amino-phenol-4-sulfonic acid, dyestuff made with, 1,127,234
2-Amino-5-benzoylamino-phenyl-*p*-tolyl sulfone, dyestuff made with, 1,359,969
3-(*m*-Amino-benzoylamino)-5-sulfo-salicylic acid, compound, $C_{43}H_{32}O_{17}N_6S_2$, made with, 1,218,654
—, therapeutic compound made with, 1,218,654
—, thiourea made with, 1,218,654
—, ureas made with, 1,218,654
p-Aminobenzoyldiethylamino-ethanol hydrochloride, see Procaine
o-Amino-benzoyl-formic acid, see Isatic acid
N[1]-*m*-Aminobenzoyl-6-methoxy-m-phenylenediamine, dyestuff made with, 1,153,555
m-Aminobenzoyl-1.4-naphthylenediamine-6-sulfonic acid, dyestuff made with, 1,153,555
Aminobenzoyl-*m*-phenylenediamine, dyestuff made with, 1,282,355; 1,282,356
m-Aminobenzoyl-*m*-phenylenediamine, dyestuff made with, 1,362,936
N-*m*-Aminobenzoyl-*m*-phenylenediamine, dyestuff made with, 1,153,555; 1,232,056; 1,362,936
N-*m*-Aminobenzoyl-p-phenylenediamine, dyestuff made with, 1,153,555
N-*p*-Aminobenzoyl-*p*-phenylenediamine, dyestuff made with, 1,153,555
N[1]*m-Aminobenzoyl-m-pheneledamine-4-sulfonic acid, see 2-Amino-4-(m'-amino-benzoyl-amino)-benzenesulfonic acid*
8-(3'-Amino-benzoylsulfonylamino)-1-naphthol-3.6-disulfonic acid, 3.3'-bis-(3.6-disulfo-8-hydroxy-1-naphthylamino-sulfonyl)-carbanilide made with, 1,218,654; 1,218,655; 1,308,071
8-(3'-Amino-benzoylsulfonylamino)-1-naphthol-3.6-disulfonic acid, dyestuff made with, 1,218,654; 1,218,655
—, mfr. of, 8-amino-1-naphthol-3.6-disulfonic acid for, 1,218,654; 1,218,655
—, —, iron for, 1,218,654; 1,218,655
—, —, *m*-nitro-benzenesulfonyl chloride for, 1,218,654; 1,218,655
—, —, process for, 1,218,654; 1,218,655
—, urea derivative of, see 3.3'-Bis(3.6-disulfo-8-hydroxy-1-naphthyl-aminosulfonyl)-carbanilide
8-(*m*-Amino-benzoylfonylamino)-1-naphthol-3.6-disulfonic acid, mfr. of hydrochloric acid for, 1,218,654; 1,218,655
N-*m*-Aminobenzoyl-*m*-toluylenediamine made with, 1,153,555
4-Aminobenzyldimethylamine, see 4-Amino-N.N-dimethyl-benzylamine
p-Amino-benzyl-dimethylamine, see N.N-diemthyl-p-phenylenediamine
p-Aminobenzyldimethylaniline, rubber preserved with, 1,410,699
Amino-bis-(4oxy-2-methyl-3-isopropyl-phenyl)-ethane, see *b.b*-Bis-(4-Hydroxy-3-isopropyl-2-methyl-phenyl)-ethylamine
b-Amino-a-bis-(2-oxynaphthyl)-ethane, see b.b-Bis-(2-Hydroxy-naphthyl)-ethylamine
b-Amino-a-bis-(4-oxyphenyl)-ethane, see b.b-Bis-(4-hydroxy-phenyl)-ethylamine
Aminobiuret, 4-acetyl-benzenearsonic acid aminobiuret made with, 1,425,929
—, arsenic compound made with, 1,425,929
4-Amino-1-brom-anthraquinone-3-sulfo-acid, see 4-Amino-1-brom-anthraquinone-3-sulfonic acid
1-Amino-4-bromanthraquinone-2-sulfonic acid, 1-amino-4-*p*-tolylamino-anthraquinone-2-sulfonic acid made with, 1,131,516
—, dyestuff made with, 1,131,516
4-Amino-1-brom-anthraquinone-3-sulfonic acid, 4-amino-1-(4'-chlor-2'-carboxy-anilino)-anthraquinone-3-sulfonic acid made with, 1,207,981
—, 7-amino-3-chlor-2.3-a-naphthacridine-5.8.13(14)-trione-6-sulfonic acid made with, 1,207,981
—, dyestuff made with, 1,207,981; 1,207,982
2-Amino-1-brom-3-chloranthraquinone, dyestuff made with, 1,452,774
—, mfr. of, 2-amino-3-chlor-anthraquinone for, 1,452,774
—, —, bromine for, 1,452,774
—, —, nitrobenzene for, 1,452,774
—, —, process for, 1,452,774
—, —, sodium carbonate for, 1,452,774
6-Amino-7-brom-5'.7'dichlor-indirubin, dyestuff made with, 1,266,092
—, mfr. of, alcohol for, 1,266,092
—, —, 6-amino-5'-7'-dichlor-indirubin for, 1,266,092
—, —, bromine for, 1,266,092
—, —, nitrobenzene for, 1,266,092
—, —, process for, 1,266,092
—, properties of, 1,266,092

1-Amino-4-brom-2-ethoxy-anthraquinone, compound, $C_{23}H_{20}O_6N_2S$ made with, 1,139,540
—, dyestuff made with, 1,139,540
1-Amino-4-brom-2-methoxy-anthraquinone, dyestuff made with, 1,139,540
1-Amino-8-brom-naphthalene-3.5-disulfonic acid, therapeutic compound made with, 1,218,655
—, thioureas made with, 1,218,655
—, urea made with, 1,218,655
Aminobutane, see Butylamine
Amino-butyric acid, mercury derivative of, barley, disinfecting of using, 1,485,021
—, —, bean, disinfecting of using, 1,485,021
—, —, cabbage, disinfecting of using, 1,485,021
—, —, corn, disinfecting of using, 1,485,021
—, —, oats, disinfecting of using, 1,485,021
—, —, pea, disinfecting of using, 1,485,021
—, —, potato, disinfecting of using, 1,485,021
—, —, seeds, disinfecting of using, 1,485,021
—, —, wheat, disinfecting of using, 1,485,021
a-Amino-iso-caproic acid, see Leucine
3-Amino-carbazol, dyestuff made with, 1,505,568
2-Amino-5-carbethoxyamino-phenyl-*p*-tolyl sulfone, dyestuff made with, 1,359,969
4-Amino-1-o-carboxy-anilido-anthraquinone-3-sulfonic acid, see 4-Amino-1-(2′-carboxy-anilino)-anthraquinone-3-sulfonic acid
4-Amino-1-(2′-carboxy-anilino)-anthraquinone-3-sulfonic acid, dyestuff made with, 1,207,982
1-Amino-8-(*o*′-carboxy-benzoylamino)-2-naphthol, dyestuff reduction product, 1,411,245
5-Amino-1-(3′-carboxy-4′-hydroxy-chlor-phenyl)-benzimidazole, dyestuff made with, 1,127,261
5-Amino-1-(carboxy-hydroxy-methyl-phenyl)-benzimidazole, dyestuff made with, 1,127,261
5-Amino-1-(3′-carboxy-4′-hydroxy-phenyl)-2-methyl-benzimidazole, dyestuff made with, 1,127,261
5-Amino-1-(3′-carboxy-4′-hydroxy-phenyl)-1.2.3-benzotriazole, dyestuff made with, 1,127,261
5-Amino-1-(3′-carboxy-2′-hydroxy-phenyl)-benzimidazole, dyestuff made with, 1,127,261
—, dyestuff reduction product, 1,127,261
5-Amino-1-(3′-carboxy-4′-hydroxy-phenyl)-2-methyl-benzimidazole, dyestuff made with, 1,127,261
5-Amino-1-(3′-carboxy-4′-hydroxy-sulfo-phenyl)-benzimidazole, dyestuff made with, 1,127,261
o-Amino-carboxylic acid, dyestuff made with, 1,243,170; 1,243,171
b-Amino-*a*-(carboxy-trihydroxy-phenyl)-ethanol, mfr. of, acetic acid for, 1,432,291
—, —, aminoacetal for, 1,432,291
—, —, gallic acid for, 1,432,291
—, —, hydrochloric acid for, 1,432,291
—, —, process for, 1,432,291
5-Amino-4-chlor-2-acetylamino-1-phenolmethyl ether, see 2-Acetamido-4-chlor-m-anisidine
2-Amino-4-chlor-5-amino-phenol, dyestuff made with, 1,292,385
1-Amino-4-chlor-anthraquinone, 1-amino-4-anilino-anthraquinone made with, 1,394,851
1-Amino-4-chlor-anthraquinone, anthraquinone derivatives made with, 1,437,783
1-Amino-5-chlor-anthraquinone, converting, 1,434,980
1-Amino-6-chlor-anthraquinone, dyestuff made with, 1,436,770
2-Amino-1-chlor-anthraquinone, anthraquinone derivatives made with, 1,394,851
2-Amino-3-chlor-anthraquinone, 2-amino-1-brom-3-chlor-anthraquinone made with, 1,452,774
—, brominating, process for, 1,452,774
—, dyestuff made with, 1,452,774
—, mfr. of, acetic acid, glacial, for, 1,452,774
—, —, alcohol for, 1,452,774
—, —, 2-amino-anthraquinone for, 1,452,774
—, —, chlorine for, 1,452,774
—, —, nitrobenzene for, 1,452,774
—, —, process for, 1,452,774
4-Amino-5′-2.1-anthraquinone-acridone-3-sulfonic acid, see 7-amino-3-chlor-2.3-a-naphthacridine-5.8.13(14)-trione-3-sulfonic acid
9-Amino-2-chlor-anthraquinone-2.1-acridone-10-sulfonic acid, see 7-Amino-3-chlor-2.3-a-naphthacridine-5.8.13(14)-trione-6-sulfonic acid
1-Amino-4-chlor-benzene-3-sulfonic acid, see 6-Chlor-metanilic acid
3-Amino-6-chlor-benzenesulfonic acid, see 6-chlor-metanilic acid
2 Amino-4-chlor-benzoic acid, dyestuff made with, 1,149,231
5-Amino-2-chlor-benzoic acid, 4.4′-Dihydroxy-azobenzene-3.3′-dicarboxylic acid made with, 1,157,169
—, dyestuff made with, 1,157,169
Aminochlorbenzoylbenzoic acid, 2-aminoanthraquinone from, 1,452,774
4-Amino-1-p-chlor-o-carboxy-anilido-anthraquonone-3-sulfonic acid, see 4-Amino-1-(4′ chlor-2′-carboxy-anilino)-anthraquinone-3-sulfonic acid
4-Amino-1-(4′-chlor-2′-carboxy-anilino)-anthraquinone-3-sulfonic acid, 7-amino-3-chlor-2.3-a-naphthacridine-5.8.13(14)-trione made with, 1,207,982
—, 7-amino-3-chlor-2.3-*a*-naphthacridine-5.8.13(14)-trione-6-sulfonic acid made with, 1,207,981; 1,207,982
—, dyestuff made with, 1,207,981; 1,207,982
—, mfr. of, 4-amino-1-brom-anthraquinone-3-sulfonic acid for, 1,207,981
—, —, potassium 5-chlor-anthranilate for, 1,207,981
—, —, process for, 1,207,981
8-Amino-7-chlor-2-dimethylamino-acridine, dyestuff made with, 1,255,739
—, mfr. of, 1-amino-6-chlor-3-formylamino-benzene for, 1,255,739
—, —, *m*-aminodimethylaniline for, 1,255,739
—, —, *m*-aminodimethylaniline hydrochloride for, 1,255,739
—, —, formyl-*m*-phenylenediamine for, 1,255,739
4-Amino-1-chlor-2-dimethylamino-benzene, dyestuff made with, 1,255,739
4-Amino-1-chlor-3.5-dinitrobenzene, preparation of, 1,423,494

4-Amino-4'-chlor-3.3'-dinitro-benzophenone, mfr. of, ammonium hydroxide for, 1,166,808
—, —, 4.4'-dichlor-3.3'-dinitro-benzophenone for, 1,166,808
—, —, process for, 1,166,808
—, pigment made with, 1,166,808
4-Amino-4'-chlor-3.3'-dinitro-diphenyl-sulfone, pigment made with, 1,166,808
4-Amino-4'-chlor-3.3'-dinitro-sulfobenzid, see 4-Amino-4'-chlor-3.3'-dinitro-diphenyl-sulfone
1-Amino-4-chlor-2-ethoxy-anthroquinone, dyestuff made with, 1,139,540
1-Amino-6-chlor-3-formylaminobenzene, see 1-Amino-3-formylamino-6-chlorobenzene
2-Amino-4-chlor-1-hydroxybenzene-6-carboxylic acid, see 3-Amino-5-chlor-salicylic acid; 3-Amino-5-chlor-2-hydroxy-benzoic acid
3-Amino-5-chlor-2-hydroxy-benzenesulfonic acid, dyestuff made with, 1,128,813; 1,199,233; 1,216,813
4-Amino-6-chlor-3-hydroxy-benzenesulfonic acid, dyestuff made with, 1,210,808; 1,440,566
3-Amino-5-chlor-2-hydroxy-benzoic acid, see 3-Amino-5-chlor-salicylic acid
2-Amino-4-chlor-1-hydroxy-5-nitrobenzene, see 2-amino-4-chlor-5-nitro-phenol
2-Amino-4-chlor-1-hydroxy-6-nitrobenzene, dyestuff made with, 1,394,823
2-Amino-6-chlor-1-hydroxy-4-nitro-benzene, see 2-Amino-6-chlor-4-nitro-phenol
4-Amino-4'-chlor-3-methoxy-6-methyl-azobenzene, see 4-(p'-chlor-phenylazo)-5-methyl-o-anisidine
4-Amino-3-chlor-6-methoxy-oxanilic acid, dyestuff made with, 1,150,656
1-Amino-4-chlor-2-methyl-anthraquinone, 1-amino-4-anilino-2-methyl-anthraquinone made with, 1,394,851
7-Amino-3-chlor-2.3-*a*-naphthacridine-5.8.13 (14)-trione, dyestuff made with, 1,207,982
—, mfr. of, 4-amino-1-(4'-chlor-2'-carboxy-anilino)-anthraquinone-3-sulfonic acid for, 1,207,982
—, —, 7-amino-2-chlor-2.3-*a*-naphthacridine-5.8.13(14)-trione-6-sulfonic acid for, 1,207,982
—, —, nitrobenzene for, 1,207,982
—, —, process for, 1,207,982
—, —, sulfuric acid, fuming, for, 1,207,982
—, —, trichlor-benzene for, 1,207,982
7-Amino-3-chlor-2.3-*a*-naphthacridine-5.8.13 (14)-trione-6-sulfonic acid, 7-amino-3-chlor-2.3-*a*-naphthacridine-5.8.13(14)-trione made with, 1,207,892
—, dyestuff made with, 1,207,981; 1,207,982
—, mfr. of, 4-amino-1-brom-anthraquinone-3-sulfonic acids for, 1,207,981
—, —, 4-amino-1(4'-chlor-2'-carboxy-anilino)-anthraquinone-3-sulfonic acid for, 1,207,981; 1,207,982
—, —, potassium 5-chlor-anthranilate for, 1,207,981
—, —, potassium chloride for, 1,207,981
—, —, process for, 1,207,981; 1,207,982
—, —, sulfuric acid, fuming, for, 1,207,981; 1,207,982
1-Amino-8-chlor-naphthalene-3.5-disulfonic acid, therapeutic compound made with, 1,218,655
—, thioureas made with, 1,218,655
—, ureas made with, 1,218,655
1-Amino-8-chlor-naphthalene-3.6-disulfonic acid, 1-(*m'*-(*m''*-amino-benzoylamino)-benzoylamino)-8-chlor-naphthalene-3.6-disulfonic acid made with, 1,218,655
—, compound, $C_{49}H_{34}O_{17}N_6S_4Cl_2$, made with, 1,218,655
—, therapeutic compound made with, 1,218,655
—, thioureas made with, 1,218,655
—, ureas made with, 1,218,655
2-Amino-8-chlor-1-naphthol-5-sulfonic acid, formation of, 1,408,296
—, mfr. of, process for, 1,408,296
6-Amino-5-chlor-1-naphthol-3-sulfonic acid, urea derivatives of, dyestuffs made with, 1,483,447
Aminochlornitrobenzene, see 2-Chlor-4-nitro-aniline
1.4.2-Aminochlornitrobenzene, see 4-Chlor-2-nitro-aniline
4-Amino-4'-chlor-3-nitro-benzophenone, pigment made with, 1,166,808
Amino-chlor-nitrophenol, see 2-Amino-6-chlor-1-hydroxy-4-nitrobenzene
2-Amino-4-chlor-5-nitrophenol, dyestuff made with, 1,292,385; 1,394,823; 1,411,245
—, —, copper compound of, properties, 1,292,385
2-Amino-4-chlor-6-nitro-phenol, dyestuff made with, 1,216,760; 1,292,385; 1,394,823; 1,411,245; 1,485,814
2-Amino-6-chlor-4-nitro-phenol, dyestuff made with, 1,408,296; 1,411,245; 1,485,814
5-Amino-4-chlor-2-oxalylamino-1-anisol, see 4-Amino-3-chlor-6-methoxy-oxanilic acid
2-Amino-4-chlor-1-oxybenzene-6-carboxylic acid, see 3-Amino-5-chlor-salicylic acid
Amino-chlor-phenol, dyestuff made with, 1,128,814
2-Amino-4-chlor-phenol, dyestuff made with, 1,159,375; 1,210,808; 1,216,760; 1,216,813; 1,227,406; 1,234,994; 1,292,385; 1,411,245
4-Amino-2-chlor-phenol, dyestuff made with, 1,453,021
—, furs dyed with, 1,466,747
2-Amino-4-chlor-phenol-5-sulfonic acid, see 4-Amino-6-chlor-3-hydroxy-benzenesulfonic acid
2-Amino-4-chlor-1-phenol-6-sulfonic acid, see 3-Amino-5-chlor-2-hydroxy-benzenesulfonic acid
2-Amino-4-chlor-phenyl-phenyl-ether, see 5-Chlor-2-phenoxy-aniline
N-(4-Amino-3-(4'-chlor-phenylsulfonyl)-phenyl)-phthalamic acid, dyestuff made with, 1,359,969
3-Amino-5-chlor-salicylic acid, diazotizing, 1,375,701
—, dyestuff made with, 1,227,406; 1,245,694; 1,375,701
2-Amino-4'-chlor-4-sulfo-1.1'-diphenylsulfone, dyestuff made with, 1,467,711
4'-amino-2'-chlor-*p*-toluenesulfonanilide, dyestuff made with, 1,518,847

2-Amino-5-chlor-*m*-tolyl-thioglycolic acid, copper salt of, 6.6′-diamino-3.3′-dichlor-5.5′-dimethyl-thioindigo made with, 1,498,913
—, —, dyestuff made with, 1,498,913
—, —, mfr. of, 2-amino-5-chlor-*m*-tolyl-thioglycolic acid, sodium salt of, for, 1,498,913
—, —, —, chlor-acetic acid for, 1,498,913
—, —, —, copper sulfate for, 1,498,913
—, —, —, process for, 1,498,913
—, —, —, sodium hydroxide for, 1,498,913
—, —, —, sulfur chloride (S_2Cl_2) for, 1,498,913
—, —, —, *o*-toluidine for, 1,498,913
—, mfr. of, chloracetic acid for, 1,498,913
—, —, process for, 1,493.913
—, —, sulfur chloride (S_2Cl_2), for, 1,498,913
—, —, *o*-toluidine for, 1,498.913
—, sodium salt of, 2-amino-5-chlor-*m*-tolyl-thioglycolic acid, copper salt of, made with, 1,498.913
—, —, 6.6′-diamino-3.3′-dichlor-5 5′-dimethyl-thioindigo made with, 1,498 913
—, —, dyestuff made with, 1,498,913
—, —, mfr. of, chlor-acetic acid for, 1,498,913
—, —, —, process for, 1,489,913
—, —, —, sodium hydroxide for, 1,498,913
—, —, —, sulfur chloride (S_2Cl_2) for, 1,498,913
—, —, —, *o*-toluidine for, 1,498,913
—, zinc salt of, 6.6′-diamino-3.3′-dichlor-5.5′-dimethyl-thioindigo made with, 1,498,913
—, —, dyestuff made with, 1,498,913
p-Amino-cinnamic acid, aminopropyl alcohol derivative, esters of, and, 1,474,567
8-(4′-(4″-Amino-cinnamylamino)-cinnamyl-amino)-1-naphthol-3.5-disulfonic acid, compound, $C_{57}H_{44}O_{19}N_6S_4$, made with, 1,218,654; 1,218,655; 1,308,071
—, dyestuff made with, 1,218,654; 1,218,655; 1,308,071
—, mfr. of, 8-amino-1-naphthol-3.5-disulfonic acid for, 1,218,654; 1,218,655; 1,308,071
—, —, hydrochloric acid for, 1,218,654; 1,218,655
—, —, iron for, 1,218,654; 1,218,655
—, —, *p*-nitro-cinnamyl chloride for, 1,218,654; 1,218,655; 1,308,071
—, —, process for, 1,218,654; 1,218,655; 1,308,071
—, therapeutic compound made with, 1,308,071
—, ureas made with, 1,308,071
—, *ureas derivative of, see Compound,* $C_{57}H_{44}O_{19}N_6S_4$
8-(m′-Amino-cinnamylamino)-1-napthol-3.5-disulfonic acid, compound, $C_{39}H_{30}O_{17}N_4S_4$, made with, 1,218,655; 1,308,071
—, dyestuff made with, 1,218,655; 1,308,071
—, mfr. of, 8-amino 1-naphthol-3.5-disulfonic acid for, 1,218,655; 1,308,071
—, —, *m*-nitro-cinnamyl chloride for, 1,218,655; 1,308,071
—, —, process for, 1,218,655; 1,308,071
—, therapeutic compound made with, 1,218,655; 1,308,071
—, therapeutic properties of, 1,308,071
—, thioureas made with, 1,218,655
—, ureas made with, 1,218,655; 1,308,071
—, *urea derivatives of, see Compound,* $C_{39}H_{30}O_{17}N_4S_4$
Amino compounds, aromatic, mfr. of, 1,456,969
—, beer, dealcoholized, made with, 1,214,729; 1,214,730
—, benzoylation of, process for, 1,296,602
—, board made with, 1,245,984
—, celluloid substitute made with, 1,245,984; 1,280,862
—, dentifrice made with, 1,470,794
—, dyestuff made with, 1,333,807
—, floor covering made with, 1,245,984
—, insulation, electric, made with, 1,245,984
—, leather, artificial, made with, 1,245,977
—, linoleum substitute made with, 1,245,978; 1,245,984
—, mfr. of, 1,447,557
—, —, alkali salts for, 1,254,033
—, —, ammonium hydroxide for, 1,254,033
—, —, ammonium salts for, 1,254,033
—, —, casein for, 1,254,033
—, —, chloroform for, 1,254,033
—, —, enzyme, proteolytic, for, 1,254,033
—, —, flour for, 1,254,033
—, —, glue for, 1,254,033
—, —, kieselguhr for, 1,254,033
—, —, liver for, 1,254,033
—, —, pancreas for, 1,254,033
—, —, process for, 1,451,489
—, —, salivary glands, stomach for, 1,254,033
—, —, sawdust for, 1,254,033
—, —, starch for, 1,254,033
—, —, wheat flour for, 1,254,033
—, plastic made with, 1,245,984
—, printers roller made with, 1,223,745
—, rubber, reclaiming of, using, 1,189,282
—, rubber substitute made with, 1,245,979; 1,245,984
—, tile made with, 1,245,984
—, varnish made with, 1,280,861
—, *see also Amido-compounds; Diazo-compounds*
Amino-cresol, alkyl ethers of, dyestuff made with, 1,498,417
—, dyestuff made with, 1,265,836; 1,265,837; 1,270,290
—, *see also Cresidine(?)*
p-Aminocresol, dye, sulfur, green, made with, 1,314,929
p-Amino-*o*-cresol, dyestuff made with, 1,175,230
3-Amino-1.4-cresolethyl ether, see 6-Methyl-m-phenetidine
Aminocresol methyl ether, see Methyl anisidine; 5-Methyl-o-anisidine
m-Amino-p-cresol-methyl ether, see 5-methyl-o-anisidine
2-Amino-*p*-cresol-sulfonic acid, dyestuff made with, 1,216,813
2-Amino-p-cresol-6-sulfonic acid, see 5-Amino-6-hydroxy-m-toluenesulfonic acid
3-Amino-4-cresol-6-sulfonic acid, see 4-Amino-5-hydroxy-o-toluene sulfonic acid
5-Amino-*p*-cresol-3-sulfonic acid, dyestuff from chroming, 1,440,566
o-Amino-*p*-cresolsulfonic acid, dyestuff made with, 1,210,808
Amino-cresotic acid, dyestuff made with, 1,128,813; 1,497,720

5-Amino-2.3-cresotic acid, dyestuff made with, 1,503,194
p-Aminocresotic acid, dyestuff decomposition product, 1,474,587
Amino-cresotinic acid, see Aminocresotic acid
p-Amino-o-cresotinic acid, see 5-Amino-2.3-Cresotic acid
Aminocymene, acetyl-aminocymene made with, 1,314,923
—, 2-acetyl-amino-1-methyl-5-nitro-4-*iso*-propyl-benzene made with, 1,314,923
—, aminocymene-azo-tolylene-diamine made with, 1,314,922
—, 2-amino-1-methyl-4-*iso*-propyl-benzene-5-sulfonic acid made with, 1,314,927
—, diazotization of, process for, 1,314,922
—, dye made with, 1,314,921; 1,314,922; 1,314,925
—, dye, sulfur, green, made with, 1,314,929
—, mfr. of, cymene for, 1,314,923
—, —, hydrochloric acid for, 1,314,920; 1,314,923
—, —, hydrogen for, 1,314,920
—, —, iron for, 1,314,920; 1,314,923
—, —, nickel catalyst for, 1,314,920
—, —, nitric acid for, 1,314,923
—, —, nitrocymene for, 1,314,920
—, —, process for, 1,314,920
—, —, sulfuric acid for, 1,314,923
—, monoacetyl amino cymene made with, 1,306,512
—, purification of, calcium hydroxide for, 1,314,920
—, —, sulfuric acid for, 1,314,920
—, vulcanizing accelerators made from carbon bisulfide and, 1,356,495
—, *see also 2-Amino-1-methyl-4-iso-propyl-benzene; 1-Methyl-2-amino-4-iso-propyl-benzene*
2-Amino-cymene, rubber, vulcanization of with, 1,280,940
—, vulcanization accelerator, 1,280,940
2-Amino-*p*-cymene, 2-amino-*p*-cymene sulfate made with, 1,332,680
—, mfr. of, hydrochloric acid for, 1,332,680
—, —, iron for, 1,332,680
—, —, 2-nitro-*p*-cymene for, 1,332,680
—, —, process for, 1,332,680
—, resin, artificial, made with, 1,441,598
—, thymol made with, 1,332,680
Aminocymene-azo-*b*-naphthol, mfr. of, 1,314,921
Aminocymene-azo-toluylene diamine, see Aminocymene-azo-tolylene-diamine
Aminocymene-azo-tolylene-diamine, dye, 1,314,922
—, mfr. of, aminocymene for, 1,314,922
—, —, hydrochloric acid for, 1,314,922
—, —, 1-methyl-4-iso-propyl-benzene-2-diazonium-chloride for, 1,314,922
—, —, 1-methyl-4-iso-propyl-benzene-3-diazonium chloride for, 1,314,922
—, —, process for, 1,314,922
—, —, sodium acetate for, 1,314,922
—, —, sodium nitrite for, 1,314,922
2-Amino-cymene-hydrochloride, rubber, vulcanization of using, 1,280,940
2-Amino-*p*-cymene sulfate, 2-amino-*p*-cymene-5-sulfonic acid made with, 1,332,680
—, mfr. of, 2-amino-*p*-cymene for, 1,332,680
—, —, process for, 1,332,680
—, —, sulfuric acid for, 1,332,680
Aminocymene sulfonic acid, dye made with, 1,314,925
2-Amino-*p*-cymene-3-sulfonic acid, *p*-cymene-3-sulfonic acid made with, 1,332,680
2-Amino-*p*-cymene-5-sulfonic acid, *p*-cymene-5-sulfonic acid made with, 1,332,680
—, mfr. of, 2-amino-*p*-cymene sulfate for, 1,332,680
—, —, process for, 1,332,680
—, thymol made with, 1,332,680
2-Amino-*p*-cymene-6-sulfonic acid, dyestuff made with, 1,447,485
—, 1, (6′-methyl-5′-sulfo-*m*′-cumenyl)-3-methyl-5-pyrazolone made with, 1,447,485
8-Amino-3.7-dialkyl-2-dialkylamino-10-alkyl-acridinium salts, mfr. of, process for, 1,473,550
4-Amino-1.1′-dianthimide, see 4-Amino-imino-bis-1.1′-anthraquinone
4-Aminodiazobenzene-2-sulfonic acid, see 4-Amino-1-diazo-benzene-2-sulfonic acid
4-Amino-1-diazo-benzene-2-sulfonic acid, dyestuff made with, 1,408,405
Amino-dibenzanthrone, dyestuff made with, 1,128,836; 1,169,404; 1,202,260; 1,204,639
Amino-*iso*-dibenzanthrone, dyestuff made with, 1,128,836; 1,204,639
Amino-dibenzanthrone-quinoline, dyestuff made with, 1,204,639
2-Amino-1.3-dichlor-anthraquinone, mfr. of, 2-amino-anthraquinone for, 1,452,774
—, —, chlorine for, 1,452,774
—, —, process for, 1,452,774
1-Amino-2.5-dichlorbenzene, see 2.5-Dichlor-aniline
4-Amino-2.6-dichlor-benzene-arsinic acid, 2.6-dichlor-4-dimethylamino-benzene-arsinic acid made with, 1,265,865
—, mfr. of, 4-acetylamino-2.6-dichlor-benzene-arsinic acid for, 1,265,865
—, —, process for, 1,265,865
4-Amino-2.6-dichlor-benzene-arsinic acid, 3.5.3′.5′-tetramino-2.2′.6.6′-tetrachlor-4.4′-di-(methylamino)-arsenobenzene made with, 1,265,865
2-Amino-3.5-dichlor-*p*-cresol, dyestuff made with, 1,408,297
6-Amino-5′-7′-dichlor-indirubin, 6-amino-7-brom-5′.7-dichlor-indirubin made with, 1,266,092
—, dyestuff made with, 1,266,092
—, mfr. of, acetic acid for, 1,266,092
—, —, 5.7-dichlorisatin for, 1,266,092
—, —, 5′.7′-dichlor-6-nitro-indirubin for, 1,266,092
—, —, hydrochloric acid for, 1,266,092
—, —, 6-nitro-diacetylindoxyl for, 1,266,092
—, —, process for, 1,266,092
—, —, sodium hydroxide for, 1,266,092
—, —, sodium hyposulfite for, 1,266,092
—, properties of, 1,266,092
2-Amino-3.6-dichlor-4-methyl-phenol, see 2-Amino-3.5-dichlor-p-cresol

4-Amino-2′.4′-dichlor-3-nitro-benzophenone, pigment made with, 1,166,808
2-Amino-4.6-dichlor-phenol, diazotizing, 1,419,501
—, dyestuff made with, 1,411,245; 1,419,501
4-Amino-2.3-dichlor-phenol, furs dyed with, 1,466,747
4-Amino-2.6-dichlor-phenol, dyestuff made with, 1,128,370; 1,209,580; 1,449,681; 1,453,021
—, indophenol made from *N*-benzoyl-*N*-methyl-aniline and, 1,449,681
4-Amino-2-diethylaminotoluene hydrochloride, see N-1.1′-diethyl-m-tolylenediamine hydrocloride
p-Amino-diethylaniline, see N.N-Diethyl-p-phenylenediamine
6-Amino-*N.N*.-diethyl-metanilic acid, dyestuff made with, 1,518,847
1-Amino-2.4-dihydroxy-benzene, see 6-Amino-resorcinol
4-Amino-1.3-dihydroxy-benzene, see 4-Amino-resorcinol
2-Amino-1.8-dihydroxy-naphthalene-3.6-disulfonic acid, dyestuff decomposition product, 1,472,334
b-Amino-a-(o-dihydroxyphenyl)-ethanol, see a-(Aminoethyl)-o-dihydroxy-benzyl alcohol
b-Amino-a-(o-dihydroxyphenyl)-a-hydroxy-ethane, see a-(Aminomethyl)-o-dihydroxy-benzyl-alcohol
Amino-dimethyl-acetic acid, see a-Amino-isobutyric acid
4-Amino-4′-dimethylamino-azobenzene, see N.N-Dimethyl-p.p′-azobisaniline
p Amino-p-dimethylamino-azobenzene, see N.N-Dimethyl-p.p′-azobisaniline
2-Amino-5-dimethylamino-benzenesulfonic acid, see 6-Amino-N.N-dimethyl-metanilic acid
8-Amino-2-dimethylamine-3.7-dimethyl-acridine, mfr. of, *N.N*-Diformyl 4-*m*-tolylenediamine for, 1,455,486
—, —, *N*(3.3)-dimethyl-4-*m*-tolylenediamine for, 1,455,486
—, —, process for, 1,455,486
p-Amino-*p′*-dimethylamino-diphenylamine, skins, dyeing of using, 1,183,748
—, hair, dyeing of, using, 1,183,748
8-Amino-2-dimethylamino-7-methyl-acridine, mfr. of, *N*(1)-formyl-4-*m*-tolylene-diamine for, 1,455,486
—, —, *N*(1.1) dimethyl-*m*-phenylenediamine for, 1,455,486
—, —, process for, 1,455,486
4-Amino-2-dimethylamino-1-methyl-benzene, see N-(3.3)-Dimethyl-4-m-tolylenediamine
4-Amino-2-dimethylamino-toluene, see N-(3.3)-Dimethyl-4-m-tolylenediamine
4-Amino-2-dimethylaminotoluene hydrochloride, see N-(3.3)-Dimethyl-4-m-tolylenediamine hydrochloride
m-Amino-dimethylaniline, see N.N-Dimethyl-m-phenylenediamine
p-Amino-dimethylaniline, see N.N-Dimethyl-p-phenylenediamine
m-Aminodimethylaniline hydrochloride, see N-(1.1)-Dimethyl-m-phenylenediamine hydrochloride
4-Amino-2′-3-dimethylazobenzene, see 4-(o′-Tolylazo)-o-toluidine
4-Amino-3.2′-dimethyl-azobenzene, see 4-(o-Tolylazo)-o-toluidine
4-Amino-2′.3-dimethyl-azobenzene-3.4′-disulfonic acid, dyestuff made with, 1,509,442
4-Amino-*N.N*-dimethylbenzylamine, dyestuff made with, 1,498,417
6-Amino-2.7-dimethyl-3-dimethylamino-acridine, see 8-Amino-3.7-dimethyl-2-dimethylamino-acridine
8-Amino-3.7-dimethyl-2-dimethylamino-acridine, 8-Amino-3.7-dimethyl-2-dimethylamino-10-methylacridinium bromide made with, 1,473,550
—, 8-amino-3.7-dimethyl-2-dimethylamino-10-methylacridinium chloride made with, 1,473,550
—, 8-amino-3.7-dimethyl-2-dimethylamino-10-methylacridinum hydroxide made with, 1,473,550
—, dyestuff made with, 1,473,550
8-Amino-3.7-dimethyl-2-dimethylamino-10-ethylacridinium bromide, mfr. of, ethyl alcohol for, 1,473,550
—, —, ethyl bromide for, 1,473,550
—, —, process for, 1,473,550
8-Amino-3.7-dimethyl-2-dimethylamino-10-methylacridinium bromide, dyestuff made with, 1,473,550
—, mfr. of, 8-amino-3.7-dimethyl-2-dimethylamino-acridine for, 1,473,550
—, —, methyl alcohol for, 1,473,550
—, —, methyl bromide for, 1,473,550
—, —, process for, 1,473,550
—, —, sodium carbonate for, 1,473,550
—, —, sodium chloride for, 1,473,550
8-Amino-3.7-dimethyl-2-dimethylamino-10-methylacridinium chloride, dyestuff made with, 1,473,550
—, mfr. of, 8-amino-3.7-dimethyl-2-dimethylamino-acridine for, 1,473,550
—, —, methyl alcohol for, 1,473,550
—, —, methyl chloride for, 1,473,550
—, —, process for, 1,473,550
—, —, sodium carbonate for, 1,473,550
—, —, sodium chloride for, 1,473,550
8-Amino-3.7-dimethyl-2-dimethylamino-10-methylacridinium hydroxide, dyestuff made with, 1,473,550
—, mfr. of, 8-amino-3.7-dimethyl-2-dimethylamino-acridine for, 1,473,550
—, —, methyl alcohol for, 1,473,550
—, —, methyl bromide for, 1,473,550
—, —, methyl chloride for, 1,473,550
—, —, process for, 1,473,550
—, —, sodium carbonate for, 1,473,550
—, —, sodium chloride for, 1,473,550
6-Amino-*N.N*-dimethyl-metanilic acid, dyestuff made with, 1,518,847
—, mfr. of, process for, 1,518,847
2-Amino-*N.N*-dimethyl-5-nitro-benzenesulfonamide, dyestuff made with, 1,429,781; 1,429,782
Amino-dimethyl-phenyl-pyrazolone, 3-acetyl-4.5-diketo-(2′.3-dimethyl-5-keto-1-phenyl-pyrazolinyl)-2-phenyl-pyrrolidine made with, 1,148,637

4-Amino-2.3-dimethyl-1-phenyl-5-pyrazolone, see 4-Amino-antipyrine
4-Amino-2.3-dimethyl-1-m-tolyl-5-pyrazolone, see 4-Amino-3'-antipyrine
4-Amino-3.5-dinitrobenzene-arsinic acid, see 3.5-Dinitro-arsanilic acid
4-Amino-3.5-dinitro-benzene-1-arsinic acid, see 3.5-Dinitro-arsanilic acid
4-Amino-3.3'-dinitro-benzophenone, pigment made with, 1,166,808
4-Amino-3.4'-dinitro-benzophenone, pigment made with, 1,166,808
2-Amino-3.6-dinitro-1-hydroxybenzene, see 2-Amino-3.6-dinitro-phenol
2-Amino-3.6-dinitro-1-oxybenzene, see 2-amino-3.6-dinitro-phenol
Aminodinitrophenol, lead salt of, primer made with, 1,478,429
—, *see also Picramic acid*
2-Amino-3.6-dinitro-phenol, dyestuff made with, 1,375,701
2-Amino-4.6-dinitro-phenol, see Picramic acid
4-Amino-2.6-dinitro-phenol, see Isopicramic acid
Amino-dinitro-toluene, mfr. of, hydrochloric acid for, 1,492,094
—, mfr. of, iron for, 1,492,094
—, —, process for, 1,492,094
—, —, trinitro-toluene for, 1,492,094
Amino-diphenylamine, see N-phenyl-phenylene-diamine
Amino-diphenyl-arsinic acid, see Bis(amino-phenyl)-arsinic acid
2-Aminodiphenyl ether, see 2-Amino-phenyl-?-sulfo-phenyl ether
di-Aminodiphenylether, dyestuff made with, 1,365,706
2-Amino-1.1'-diphenylsulfone, dyestuff made with, 1,467,711
2-Amino-3.6-disulfonic acid, pigment made with, 1,472,334
Aminoethane, see Ethylamine
Amino-ethane acid, see Glycine
Amino-ethoxy-benzene, see Phenetidine
1-Amino-8-ethoxy-naphthalene-3.6-disulfonic acid, see 4-Amino-5-ethoxy-naphthalene-2.7-disulfonic acid
4-Amino-5-ethoxy-naphthalene-2.7-disulfonic acid, 4-(3'-(3"-amino-benzoylamino)-benzoyl-amino)-5-ethoxy-naphthalene-2.7-disulfonic acid made with, 1,218,654; 1,218,655
—, compound, $C_{53}H_{44}O_{19}N_6S_4$, made with, 1,218,654; 1,218,655
—, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
1-Amino-2-ethoxy-naphthalene-6-sulfonic acid, dyestuff made with, 1,169,344
—, *see also 1-Amino-2-naphthyl-ethyl ether*
1-Amino-2-ethoxy-naphthalene-6-sulfonic acid, see 1-Amino-6-sulfo-2-naphthyl-ethyl ether
4-Amino-*N*-ethyl acetanilide, dyestuff made with, 1,483,415
p-Aminoethylacetanilide, see 4-Amino-N-ethyl-acetanilide
p-Amino-ethaniline, see N-Ethyl-p-phenylene-diamine
4-Amino-2-ethylamino-1-methylbenzene hydrochloride, see N-(3)-Ethyl-4-m-tolylenediamine hydrochloride
4-Amino-2-ethylaminotoluene hydrochloride, see N-(1)-Diethyl-m-tolylenediamine hydrochloride
p-Amino-ethyl-benzoate, see Ethyl p-amino-benzoate
—, *see also Mydriatin*
a-(*a'*-Aminoethyl)-benzyl alcohol, mydriatic, 1,356,877
5-Aminoethyl-glyoxaline, see 5-(Aminoethyl)-imidazole
Amino-ethylidine-tetrahydropapaverine, see Amino-ethyl-norcoralydine
4-(Aminoethyl)-imidazole, see 5-(Aminoethyl)-imidazole
5-(Aminoethyl)-imidazole, mfr. of, alcohol for, 1,178,720
—, —, 5-(aminoethyl)-imidazole-hydrochloride for, 1,178,720
—, —, ergot for, 1,178,720
—, —, histidine for, 1,178,720
—, —, phosphoric acid for, 1,178,720
—, —, process for, 1,178,720
—, —, sodium ethylate for, 1,178,720
—, physiological action of, 1,178,720
—, tyrosine, therapeutic compound made of and, 1,178,720
5-(Aminoethyl)-imidazole-hydrochloride, mfr. of, 1,178,720
2-Amino-*N*-ethyl-5-nitro-benzenesulfonanilide dyestuff made with, 1,429,781; 1,429,782
p-(b-Aminoethyl)-phenol, see Tyramine
p-Amino-ethylphenyl ether, see Phenetidine
ω-Amino-*N*-ethylpiperidine, camphoric acid derivatives made with, 1,406,547
—, preparation of, 1,406,547
4-Amino-ethyl-4'-sulfobenzylaniline-3-sulfonic acid(?), dyestuff made with, 1,518,847
p-Amino-formanilide, urea derivatives of, dyestuff made with, 1,483,447
1-Amino-3-formylamino-6-chlorbenzene, 8-amino-7-chlor-2-dimethyl-amino-acridine made with, 1,255,739
1-Amino-3-formylamino-6-chlorbenzene, dyestuff made with, 1,255,739
—, dyestuff intermediate, 1,418,852
Amino-formyl chloride, see Carbamyl chloride
Amino-G-acid, see 2-Naphthylamino-6.6-disulfonic acid
a-Amino-glutaric acid, see Glutamic acid
Aminoguanidine, see also Amidoguanidine
Amino-guanidine nitrate, 4-acetyl-benzene-arsonic acid aminoguanidine made with, 1,425,929
1.4-Aminohalogenanthracene, parazene from, 1,340,696
1-Amino-4-halogen-anthraquinone-2-sulfonic acid, 1-Amino-4-*p*-tolylamino-anthraquinone-2-sulfonic acid made with, 1,131,516
—, dyestuff made with, 1,131,516
1.4-Aminohalogen naphthalene, parazenes from, 1,340,696

Amino-hydroquinol, dialkyl ethers of, dyestuff made with, 1,498,417
Aminohydroquinonediethyl ether, see Ethyoxy-phenetidine
Aminohydroquinonedimethyl ether, see Methoxy-anisidine
2-Aminohydroquinone-1-methyl-4-benzyl ether, see 5-Benzyloxy-o-anisidine
3-Amino-4-hydroxy-acetanilide, dyestuff made with, 1,292,385
—, dyestuff from, copper compound of, properties for, 1,292,385
—, dyestuff reduction product, 1,219,954
1-Amino-4-hydroxyanthraquinone, anthraquinone derivatives made with, 1,437,783
1-Amino-4-hydroxy-anthraquinone-sulfonic acids, lake made with, 1,126,664
1-Amino-4-hydroxy-anthraquinone-2-sulfonic acid, lake made with, 1,126,664
1-Amino-4-hydroxy-anthraquinone-3-sulfonic acid, lake made with, 1,126,664
Amino-hydroxy-benzene, see Aminophenol
2-Amino-1-hydroxybenzene, see also 2-Aminophenol
Amino-hydroxy-benzenearsonic acid, derivatives of, mfr. of, process for, 1,482,514
—, mfr. of, charcoal for, 1,482,514
—, —, glucose for, 1,482,514
—, —, hydrochloric acid for, 1,482,514
—, —, hydroxy-nitro-benzenearsonic acid for, 1,482,514
—, —, hydrosulfite for, 1,482,514
—, —, iron(ous) salts for, 1,482,514
—, —, molasses for, 1,482,514
—, —, potash for, 1,482,514
—, —, process for, 1,482,514
—, —, sodium carbonate for, 1,482,514
—, —, sugar for, 1,482,514
—, *see also Hydroxy-arsenilic acid*
3-Amino-4-hydroxy-benzenearsonic acid, see 4-Hydroxy-m-arsanilic acid
2-Amino-1-hydroxybenzene-4-sulfonamide, compound $C_{16}H_{13}O_7N_3S_2$, made with, 1,325,841
—, dyestuff made with, 1,325,841; 1,338,414
—, mfr. of, ammonium hydroxide for, 1,325,841
—, —, 1-chlor-2-nitrobenzene-4-sulfonylchloride for, 1,325,841
—, —, hydrochloric acid for, 1,325,841
—, —, process for, 1,325,841
—, —, sodium hydroxide for, 1,325,841
—, —, sodium sulfide for, 1,325,841
3-Amino-4-hydroxy-benzenesulfonamide, dyestuff made with, 1,338,414
2-Amino-1-hydroxy-benzene-4-sulfonanilide, dyestuff made with, 1,338,414
3-Amino-4-hydroxy-benzenesulfonanilide, 1.8-dihydroxy-naphthalene-3.6-disulfonic acid, compound of and, 1,316,781
—, dyestuff made with, 1,316,781
—, mfr. of, aniline for, 1,316,781
—, —, chalk for, 1,316,781
—, —, 1-chlor-2-nitro-benzene-4-sulfonyl chloride for, 1,316,781
—, —, hydrochloric acid for, 1,316,781
—, —, process for, 1,316,781
—, —, sodium hydroxide for, 1,316,781
—, —, sodium sulfide for, 1,316,781
Amino-hydroxy-benzenesulfonic acid, derivatives of, dyestuff made with, 1,127,234
—, dyestuff made with, 1,126,656; 1,199,233; 1,210,808; 1,216,813; 1,265,031; 1,282,354; 1,282,355; 1,282,356
—, *see also 4-Hydroxy-metanilic acid*
2-Amino-4-hydroxy-benzenesulfonic acid, dyestuff made with, 1,419,500
3-Amino-4-hydroxy-benzenesulfonic acid, see 4-Hydroxy-metanilic acid
—, *see also 2-Amino-phenol-4-sulfonic acid*
3-Amino-4-hydroxy-benzoic acid, dyestuff made with, 1,245,694
3-Amino-2-hydroxy-benzoic acid-5-sulfonic acid, see 3-Amino-5-sulfo-salicylic acid
5-Amino-2-hydroxy-1-methyl-*iso*-propyl-benzene, alkyl derivatives, dye from, 1,314,928
—, dye from, 1,314,928
Aminohydroxynaphthalene, see Aminonaphthol
4-Amino-5-hydroxy-naphthalene-2.7-disulfonic acid, see 8-Amino-1-naphthol-3.6-sulfonic acid
4-Amino-5-hydroxy-2.7-naphthalenedisulfonic acid, see 8-Amino-1-naphthol-3.6-disulfonic acid
8-Amino-1-hydroxy-naphthalene-3.6-disulfonic acid, see 8-Amino-1-naphthol-3.6-disulfonic acid
Amino-hydroxy-naphthalene-sulfonic acid, see Amino-naphthol-sulfonic acid
1-Amino-2-hydroxynaphthalene-4-sulfonic acid, see 1-Amino-2-naphthol-4-sulfonic acid
—, *see also 3-Hydroxy-naphthionic acid*
1-Amino-5-hydroxy-naphthalene-7-sulfonic acid, see 5-Amino-1-naphthol-3-sulfonic acid
1-Amino-8-hydroxy-naphthalene-4-sulfonic acid, see 8-Amino-1-naphthol-5-sulfonic acid
2-Amino-1-hydroxy-naphthalene-4-sulfonic acid, see 2-Amino-naphthol-4-sulfonic acid
2-Amino-5-hydroxy-naphthalene-7-sulfonic acid, see Amino-1-naphthol-3-sulfonic acid
2-Amino-8-hydroxynaphtholene-6-sulfonic acid, see 7-Amino-1-naphthol-3-sulfonic acid
4-Amino-3-hydroxy-1-naphthalene-sulfonic acid, see 3-Hydroxy-naphthionic acid
4-Amino-3-hydroxy-2-naphthanilide, dyestuff reduction product, 1,206,232; 1,503,044
4-Amino-3-hydroxy-2-naphthoic acid, arylid of, dyestuff made with, 1,498,417
—, dyestuff made with, 1,216,760; 1,245,694; 1,452,083
1-Amino-2-hydroxy-3-naphthoic acid, see 4-Amino-3-hydroxy-2-naphthoic acid
2-(4′-Amino-1′-hydroxy-2′-naphthoyl)-benzoic acid, dyestuff made with, 1,194,380
(4′-Amino-3′-hydroxy-1-naphthyl)-methane-sulfonic acid, dyestuff made with, 1,488,411
2-Amino-1-hydroxy-6-nitro-benzene-4-sulfonamide, dyestuff made with, 1,338,414
3-Amino-2-hydroxy-5-nitro-benzenesulfonic acid, See 2-Hydroxy-5-nitro-metanilic acid
3-Amino-4-hydroxy-5-nitro-benzenesulfonic acid, see 4-Hydroxy-5-nitrometanilic acid
—, *see also 2-Amino-6-nitro-phenol-4-sulfonic acid*
3-Amino-4-hydroxy-6-nitro-benzenesulfonic acid, see 4-Hydroxy-6-nitro-mentanilic acid

5-Amino-4-hydroxy-2-nitro-benzenesulfonic acid, see 4-Hydroxy-6-nitro-metanilic acid
1-Amino-4-(2′-hydroxy-4′-nitro-phenylazo)-naphthalene-6-sulfonic acid, dyestuff made with, 1,292,385
2-Amino-1-hydroxy-5-nitro-sulfobenzene, see 4-Hydroxy-6-nitro-metanilic acid
2-Amino-1-hydroxy-6-nitro-sulfobenzene, see 4-Hydroxy-5-nitro-metanilic acid
6-Amino-1-hydroxy-4-nitro-2-sulfobenzene, see 2-Hydroxy-5-nitro-metanilic acid
p-(4′-Amino-3′ hydroxy-phenoxy)-ethyl-4-amino-3-hydroxy-phenyl ether, dyestuff made with, 1,210,751
p-(4′-Amino-3′-hydroxy-phenoxy)-phenyl-4-amino-3-hydroxy-phenyl ether, dyestuff made with, 1,210,751
a-Amino-b-p-hydroxyphenyl-propionic acid, see Tyrosine
3-Amino-2-hydroxy-5-sulfo-benzoic acid, see 3-Amino-5-sulfo-salicylic acid
3-Amino-6-hydroxy-5-sulfo-benzoic acid, dyestuff made with, 1,128,813
5-Amino-6-hydroxy-3-sulfo-benzoic acid, see 3-Amino-5-sulfo-salicylic acid
6-Amino-4-(5′hydroxy-7′-sulfo-3′naphthylazo)-1-naphthol-3-sulfonic acid, dyestuff made with, 1,292,385
6-Amino-5-(5′ hydroxy-7′-sulfo-2′-naphthylazo)-1-naphthol-3-sulfonic acid, dyestuff made with, 1,292,385
5-Amino-1-(5′hydroxy-7′-sulfo-2′-naphthyl)-1.2.3-benzotriazole, dyestuff made with, 1,265,030; 1,265,031; 1,282,355; 1,282,356
—, *see also 6-(5′-Amino-1.2.3-benzotriazole)-1-naphthol-3-(2)-pyrazolene; 6-(5′-Amino-1.2.3-benzotriazole)-1-naphthol-3-sulfonic acid*
6-Amino-1-(5′-hydroxy-7′-sulfo-2′-naphthyl)-1.2.3-benzotriazole, dyestuff made with, 1,342,134
4-Amino-5-hydroxy-*o*-toluenesulfonic acid, dyestuff, chromium compounds of made with, 1,480,640
5-Amino-6-hydroxy-*m*-toluenesulfonic acid, dyestuff made with, 1,216,812; 1,227,406; 1,233,433; 1,440,566
b-Amino-a-hydroxy-a-trihydroxy-phenyl-ethane, see b-Amino-a-(trihydroxy-phenyl)-ethanol
a-Amino-5-imidazole-propionic acid, see Histidine
4-Amino-iminobis-1.1′-anthraquinone, anthraquinone derivatives made with, 1,437,783
—, dyestuff made with, 1,437,783
Aminoketone, aminoalcohols from, 1,423,101
Aminoketonehydrochloride, aminoalcohols from, 1,423,101
Aminoketonesulfate, aminoalcohols from, 1,423,101
3-Amino-4-lactyl-*p*-phenetidine, mfr. of, acetic acid, glacial, for, 1,159,403
—, —, *n*-lactyl-p-phenetidine for, 1,159,403
—, —, nitric acid for, 1,159,403
—, —, 3-nitro-5-lactyl-*p*-phenetidine for, 1,159,403
—, —, process for, 1,159,403
Amino-*leuco*-patent blue, dyestuff made with, 1,237,192; 1,237,193
—, mfr. of, *N.N*-diethyl-aniline for, 1,237,192
—, —, *leuco*-patent blue for, 1,237,192
—, —, nitric acid for, 1,237,192
—, —, *m*-nitro-benzaldehyde for, 1,237,192
—, —, process for, 1,237,192
—, —, sulfuric acid for, 1,237,192
4-Amino-2-mercaptobenzene-1-carboxylic acid, see 4-Amino-thiosalicylic acid
4-Amino-2-mercapto-benzoic acid, see 4-Amino-thiosalicylic acid
Amino-mercuric chloride, see Mercury(ic) ammonium chloride
Amino-metanilic acid, see Diamino-benzenesulfonic acid
6-Amino-metanilic acid, see 2.5-Diamino-benzenesulfonic acid
Amino-methane, see Methylamine
1-Amino-4-methoxyanthraquinone, anthraquinone derivatives made with, 1,437,783
—, dyestuff made with, 1,436,770
Amino-methoxy-benzene, see Anisidine
o-Amino-methoxy-benzoic acid, alkamine ester of, mfr. of, 1,317,250
—, —, solvent for, acetone as, 1,317,250
—, —, —, alcohol as, 1,317,250
—, —, —, benzene as, 1,317,250
—, —, —, ether as, 1,317,250
—, —, —, water as, 1,317,250
p-Amino-methoxy-benzoic acid, alkamine ester of, mfr. of, 1,317,250
—, —, solvent for, acetone as, 1,317,250
—, —, —, alcohol as, 1,317,250
—, —, —, benzene as, 1,317,250
—, —, —, ether as, 1,317,250
—, —, —, water as, 1,316,250
1-Amino-8-methoxy-4.6-disulfonic acid, see 4-Amino-5-methoxy-naphthalene-1.7-disulfonic acid
1-Amino-2-methoxy-4-methyl-benzene, see 4-Methyl-o-anisidine
3-Amino-4-methoxy-1-methyl-benzene, see 5-Methyl-o-anisidine
1-Amino-8-methoxy-naphthalene-4.6-disulfonic acid, see 4-Amino-5-methoxy-naphthalene-1.7-disulfonic acid
4-Amino-5-methoxy-naphthalene-1.7-disulfonic acid, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
1-Amino-2-methoxy-naphthalene-6-sulfonic acid, dyestuff made with, 1,504,134
1-Amino-2-methoxy-naphthylene, dyestuff made with, 1,452,083
4-Amino-4′-methoxy-3-nitro-benzophenone, pigment made with, 1,166,808
3-Amino-4-methoxy-phenyl-benzyl ether, see 5-Benzyloxy-o-anisidine
3-Amino-4-methoxy-toluene, see 5-Methyl-o-anisidine
4-Amino-4-methyl-*o*-acetaniside, dyestuff made with, 1,498,315
4-Amino-2-methylamino-toluene hydrochloride, dyestuff made with, 1,255,740

p-Amino-methylaniline, see N-methyl-p-phenylenediamine
4-Amino-2-methyl-m-anisidine, see 2-Methoxy-3-methyl-p-phenylenediamine
4-Amino-5-methyl-o-anisidine, see 2-Methoxy-5-methyl-p-phenylenediamine
Amino-methylanisole, see Methyl anisidine
4-Amino-5-methyl-o-anisidine, see 5-Methoxy-2-p-tolylenediamine
1-Amino-2-methyl-anthraquinone, 1-amino-4-anilino-2-methyl-anthraquinone made with, 1,394,851
—, 1-amino-anthraquinone-2-aldehyde made with, 1,285,726
—, 1-amino-2-methyl-4-*p*-toluido-anthraquinone made with, 1,394,851
—, anthraquinone derivatives made with, 1,394,851
—, dyestuff made with, 1,285,726; 1,285,727
2-Amino-3-methyl-anthraquinone-mercaptan, dyestuff made with, 1,126,475
4-Amino-3′-methyl-antipyrine, compound, $C_{17}H_{19}O_4N_3$, made with, 1,151,885
9-Amino-10-methyl-3.4-benzacridine, mfr. of, 1,455,488
Amino-methyl-benzene, see Toluidine
3-Amino-1-methylbenzene, see m-Toluidine
4-Amino-1-methyl-benzene, see p-Toluidine
2-Amino-5-methyl-1-benzenesulfonic acid, see 6-Amino-m-toluenesulfonic acid
Aminomethylbenzimidazole-o-salicylic acid, see 5-Amino-(3′carboxy-2′-hydroxy-phenyl)-2-methyl-benzimidazole
Aminomethylbenzimidazole-p-salicylic acid see 5-Amino-(3′-carboxy-4′-hydroxy-phenyl)-2-methyl-benzimidazole
1-Amino-2-methyl-4-chlor-anthraquinone, anthraquinone derivatives made with, 1,394,851
—, derivatives of, 1,394,851
a-(Aminoethyl)-*o*-dihydroxy-benzyl alcohol, mfr. of, aminoacetal for, 1,432,291
—, —, process for, 1,432,291
—, —, pyrocatechol for, 1,432,291
p-Amino-*N*-methylformanilide, dyestuff made with, 1,273,901
—, mfr. of, calcium carbonate for, 1,273,901
—, —, formic acid for, 1,273,901
—, —, iron for, 1,273,901
—, —, *N*-methylformanilide for, 1,273,901
—, —, nitric acid for, 1,273,901
—, —, *p*-nitro-*N*-methylformanilide for, 1,273,901
—, —, process for, 1,273,901
—, —, sulfuric acid for, 1,273,901
—, properties of, 1,273,901
Amino-methyl-naphthalene, dyestuff made with, 1,498,417
1-Amino-methyl-naphthalene, dye of diazo component of anilide of 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of anisidide of 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of arylamides of, 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of naphthalide of 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of nitroanilide of 2:3-oxynaphthoic acid, 1,452,083
1-Amino-methyl-naphthalene, dye of diazo-components of phenetidide of 2.3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of *p*-phenylendiamine of 2:3-oxynaphthoic acid, 1,452,082
—, dye of diazo-components of toluidide of 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of di-*m*-toluylenediamine of 2:3-oxynaphthoic acid, 1,452,083
1-Amino-methyl-naphthylamine, dyestuff made with, 1,452,083
Amino-methyl-naphthalene, see Methyl-naphthylamine
1-Amino-2-methyl-naphthlyene, dyestuff made with, 1,452,083
?-Amino-?-methyl-3′-nitro-azobenzene, see ?-(m′-Nitro-phenylazo) m-toluidine
4-Amino-1-methyl-3-nitro-benzene, see 2-Nitro-p-toluidine
2-Amino-*N*-methyl-5-nitro-benzenesulfonanilide, dyestuff, made with, 1,429,781; 1,429,782
2-Amino-4-methyl-6-nitro-phenol, see 2-Amino-6-nitro-p-cresol
2-Amino-6-methyl-4-nitro-phenol, dyestuff made with, 1,485,814
2-Amino-1-methyl-5-nitro-4-*iso*-propyl-benzene, alkyl derivative, dye from, 1,314,928
—, dye from, 1,314,928
Amino-methyl-norcoralydine, mfr. of, acetal for, 1,176,597
—, —, amino-papaverine for, 1,176,597
—, —, process for, 1,176,597
4-Amino-4-methyl-2-pentanone, see Diactone amine
5-Amino-4-methyl-*o*-phenetidine, dyestuff reduction product, 1,169,329
Amino-methyl-phenyl-acetic acid, see a-Amino-hydratropic acid
1-Amino-2-methyl-4-phenylamino-anthraquinone, see 1-Amino-4-anilino-2-methyl-anthraquinone
1-(4′-Amino-3′-methyl-phenyl)-3.5-dimethyl-benzothiazole-disulfonic acid, dyestuff made with, 1,159,386
—, mfr. of, process for, 1,149,582
1-(4′-Amino-3′-methyl-phenyl)-3.5-dimethyl-benzothiazole-sulfonic acid, mfr. of, process for, 1,149,582
2-Amino-4-methyl-phenyl-methyl ether, see 5-Methyl-o-anisidine
2-Amino-1-methyl-4-*iso*-propyl-benzene, alkyl derivatives, dye made with, 1,314,928
—, dye made with, 1,314,928
—, *see also Aminocymene; 2-Amino-cymene*
3-Amino-1-methyl-4-*iso*-propyl-benzene, alkyl derivatives, dye from, 1,314,928
—, dye from, 1,314,928
2-Amino-1-methyl-4-*iso*-propyl-benzene-5-sulfonic acid, mfr. of, aminocymene for, 1,314,927
—, —, sulfuric acid for, 1,314,927
—, purification of, bone charcoal for, 1,314,927
—, —, carbon, decolorizing for, 1,314,927
—, —, sodium hydroxide for, 1,314,927
2-Amino-4′-methyl-4-sulfo-1.1′-diphenylsulfone, dyestuff made with, 1,467,711
a-Amino-a-methyl-a-toluic acid, see a-Amino-hydratropic acid

1-Amino-2-methyl-4-toluidoanthraquinone, anthraquinone derivatives made with, 1,437,783
1-Amino-2-methyl-4-*p*-toluido-anthraquinone, mfr. of, 1-amino-2-methyl-anthraquinone for, 1,394,851
—, —, nickel oxide for, 1,394,851
—, —, nitrogen for, 1,394,851
—, —, process for, 1,394,851
—, —, sodium for, 1,394,851
—, —, *p*-toluidine for, 1,394,851
1-Amino-2-methyl-4-p-tolyl-amino-anthraquinone, see 1-Amino-2-methyl-4-p-toluino-anthraquinone
a-(Aminomethyl)-trihydroxy-benzyl alcohol, mfr. of, aminoacetol for, 1,432,291
—, —, process for, 1,432,291
—, —, pyrogallol for, 1,432,291
1-Amino-4-monoacetylamino-5-alkyloxybenzene, dyestuff yielding on reduction, 1,408,405
1-Amino-4-monoacetylamino-5-methoxybenzene 2-sulfonic acid, dyestuff yielding on reduction, 1,408,405
" Amino-mono-oxy-naphthalene-sulfonic acids," dyestuff reduction products, 1,426,189
1-Amino-naphthalene, see 1-Naphthylamine
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Amino-naphthalenediol-sulfonic acids, tanning compound made with, 1,186,500
1-Aminonaphthalene-6.8-disulfo-3-carboxylic acid, 1,8-dihydroxy-naphthalene-3-sulfo-6-carboxylic acid prepared from, 1,375,701
—, preparation of, 1,375,701
1-Amino-naphthalene-2.4-disulfonic acid, tanning compound made with, 1,414,045; 1,421,722
1-Amino-naphthalene-3.6-disulfonic acid, 1(p'-(m''-aminobenzoyl) amino-benzoyl)-amino-naphthalene-3.6-disulfonic acid made with, 1,218,654; 1,218,655
—, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
1-Amino-naphthalene-4.6-disulfonic acid, 1-(3'-(3''-amino-*p*''-anisoyl)-amino-*p*'-anisoyl)-amino-naphthalene-4.6-disulfonic acid made with, 1,218,654; 1,218,655
—, compound, $C_{53}H_{44}O_{21}N_6S_4$, made with, 1,218,654; 1,218,655
1-Amino-naphthalene-4.6-disulfonic acid, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
2-Amino-naphthalene-1.5-disulfonic acid, tanning compound made with, 1,414,045; 1,421,722
2-Amino-naphthalene-3.6-disulfonic acid, formaldehyde, condensation product of and, 1,222,033
2-Amino-naphthalene-3.6-disulfonic acid, glue precipitation compound made with, 1,222,033
—, methylal, condensation product of and, 1,222,033
—, tanning compound made with, 1,222,033
2-Amino-naphthalene-3.6-disulfonic acid, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, trioxymethylene, condensation product of and, 1,222,033
—, ureas made with, 1,218,654; 1,218,655
2-Amino-naphthalene-4.8-disulfonic acid, dyestuff made with, 1,416,621; 1,496,780
2-Amino-naphthalene-5.7-disulfonic acid, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
2-Amino-naphthalene-6.8-disulfonic acid, dyestuff made with, 1,429,782
2-Amino-naphthalene-4.8-disulfonic acid-azo-1-aminonaphthalene-azo-1-amino-naphthalene-6-sulfonic acid, dyestuff made with, 1,496,780
Amino-naphthalene-sulfonic acid, benzidine, condensation of and, 1,125,311
—, —, derivative of, condensation of and, 1,125,311
—, *p*-diamine, condensation of and, 1,125,311
—, *p.p*-diamino-diphenylamine, condensation of and, 1,125,311
—, dyestuff made with, 1,183,831; 1,270,290; 1,338,397
—, fluorescent substances, protection from compound suitable for, contg., 1,511,874
—, naphthylenediamine, condensation of and, 1,125,311
—, —, derivatives of, condensation of and, 1,125,311
—, *p*-phenylenediamine, condensation of and, 1,125,311
—, —, derivatives of, condensation of and, 1,125,311
—, photochemical processes, protection from compound suitable for, contg., 1,511,874
—, photographic emulsion, protection from compound suitable for, contg., 1,511,874
—, tanning with, 1,421,722
—, tanning compound made with, 1,414,045; 1,421,722
—, therapeutic product, protection from compound suitable for, contg., 1,511,874
—, *p*-tolylenediamine, condensation of and, 1,125,311
—, —, derivatives of, condensation of and, 1,125,311
—, ultra-violet filter, protection from, compound suitable for, contg., 1,511,874
—, ultra-violet light, protection from compound suitable for, contg., 1,511,874
—, X-ray screen, protection from, compound suitable for, contg., 1,511,874
1-Amino-naphthalene-2-sulfonic acid, 4-Amino-1-(*p*-tolylsulfonamide)-naphthalene-2-sulfonic acid made with, 1,442,818
—, *N.N'*-Bis-(4-amino-2-sulfo-naphthyl)-*m*-benzene-disulfonamide made with, 1,442,818
—, formaldehyde, condensation product of and, 1,222,033
—, glue precipitating compound made with, 1,222,033

1-Amino-naphthalene-2-sulfonic acid, methylal, condensation product of and, 1,222,033
—, tanning compound made with, 1,222,033
1-Amino-naphthalene-3-sulfonic acid, formaldehyde, condensation product of and, 1,222,033
—, glue precipitating compound made with, 1,222,033
—, methylal, condensation product of and, 1,222,033
—, tanning compound made with, 1,222,033
—, trioxymethylene, condensation product of and, 1,222,033
1-Amino-naphthalene-5-sulfonic acid, formaldehyde, condensation product of and, 1,222,033
—, methylal, condensation product of and, 1,222,033
—, trioxymethylene, condensation product of and, 1,222,033
1-Amino-naphthalene-6-sulfonic acid, 4-Amino-1-(*p*-tolylsulfonamide)-naphthalene-6-sulfonic acid made with, 1,442,818
—, N.N-Bis-(4-amino-6-sulfo-1-naphthyl)-*m*-benzene-disulfonamide made with, 1,442,818
—, dyestuff made with, 1,292,385; 1,416,621; 1,422,866; 1,496,780; 1,498,316; 1,504,125; 1,504,134
—, formaldehyde, condensation product of and, 1,222,033
—, glue precipitating compound made with, 1,222,033
—, methylal, condensation product of and, 1,222,033
—, tanning compounds made with, 1,222,033
—, trioxymethylene, condensation product of and, 1,222,033
1-Amino-naphthalene-7-sulfonic acid, 4-amino-1-(*p*-tolylsulfonamide)-naphthalene-7-sulfonic acid made with, 1,442,818
—, *N.N'*-Bis(4-amino-7-sulfo-1-naphthyl)-*m*-benzene-disulfonamide made with, 1,442,818
—, dyestuff made with, 1,416,621; 1,422,866; 1,496,780; 1,498,316; 1,504,134
—, formaldehyde, condensation product of and, 1,222,033
—, glue precipitating compound made with, 1,222,033
—, methylal, condensation product of and, 1,222,033
—, tanning compound made with, 1,222,033
—, trioxymethylene, condensation product of and, 1,222,033
1-Amino-naphthalene-8-sulfonic acid, 4-amino-1-(*p*-tolysulfonamide) naphthalene-8-sulfonic acid made with, 1,442,818
—, *N.N'*-Bis(4-amino-8-sulfo-1-naphthyl)-*m*-benzene-disulfonamide made with, 1,442,818
—, dyestuff made with, 1,227,406
—, formaldehyde, condensation product of and, 1,222,033
—, glue precipitating compound made with, 1,222,033
—, methylal, condensation product of and, 1,222,033
—, tanning compound made with, 1,222,033
—, trioxymethylene, condensation product of and, 1,222,033
2-Amino-naphthalene-1-sulfonic acid, diazotizing, 1,383,711
—, dyestuff made with, 1,383,711; 1,504,469
2-Amino-naphthalene-5-sulfonic acid, formaldehyde, condensation product of and, 1,222,033
—, glue precipitating compound made with, 1,222,033
—, methylal, condensation product of and, 1,222,033
—, tanning compound made with, 1,222,033
—, trioxymethylene, condensation product of and, 1,222,033
2-Amino-naphthalene-6-sulfonic acid, dyestuff made with, 1,359,969; 1,394,823
—, formaldehyde, condensation product of and, 1,222,033
—, glue precipitating compound made with, 1,222,033
—, methylal, condensation product of and, 1,222,033
—, tanning compound made with, 1,222,033
—, trioxymethylene, condensation product of and, 1,222,033
2-Amino-naphthalene-7-sulfonic acid, dyestuff made with, 1,394,823
—, formaldehyde, condensation product of and, 1,222,033
—, glue precipitating compound made with, 1,222,033
—, methylal, condensation product of and, 1,222,033
—, tanning compound made with, 1,222,033
—, trioxymethylene, condensation product of and, 1,222,033
2-Amino-naphthalene-8-sulfonic acid, dyestuff made with, 1,429,782
—, formaldehyde, condensation product of and, 1,222,033
—, glue precipitating compound made with, 1,222,033
—, methylal, condensation product of and, 1,222,033
—, tanning compound made with, 1,222,033
—, trioxymethylene, condensation product of and, 1,222,033
4-Amino-naphthalene-1-sulfonic acid, see Naphthionic acid
4-Amino-1-naphthalene-sulfonic acid, see 3-Hydroxy-naphthionic acid
5-Amino-naphthalene-1-sulfonic acid, dyestuff made with, 1,126,489
6-Amino-2-naphthalenesulfonic acid, dyestuff made with, 1,202,821
—, naphthazarin, condensation product of and, 1,202,821
8-Amino-naphthalene-1-sulfonic acid, see 1-Amino-naphthalene-8-sulfonic acid
8-Amino-1-naphthalene-sulfonic acid, dyestuff made with, 1,202,821
—, naphthazarin, condensation product of and, 1,202,821
Amino-naphthalene-sulfonic acid condensation products, cellulose ether composition of and, 1,505,044
—, ethyl cellulose, composition of and, 1,505,044
—, filament, artificial, made with, 1,505,044
—, film made with, 1,505,044

Amino-naphthalene-sulfonic acid condensation products, leather, coating for, made with, 1,505,044
—, methyl cellulose, composition of and, 1,505,044
—, paper, coating for, made with, 1,505,044
—, plastic made with, 1,505,044
—, silk, artificial, made with, 1,505,044
—, sizing made with, 1,505,044
—, tannin substitute, 1,505,044
—, textile, coating for, made with, 1,505,044
Amino-naphthalene-sulfonic acid formaldehyde condensate, cellulose ether, composition of and, 1,505,044
—, ethyl cellulose, composition of and, 1,505,044
—, filament, artificial, made with, 1,505,044
—, film made with, 1,505,044
—, leather, coating for, made with, 1,505,044
—, methyl cellulose, composition of and, 1,505,044
—, paper, coating for, made with, 1,505,044
—, plastic made with, 1,505,044
—, silk, artificial, made with, 1,505,044
—, sizing made with, 1,505,044
—, tannin substitute made with, 1,505,044
—, textile, coating for, made with, 1,505,044
1-Amino-naphthalene-4.6-8-trisulfonic acid, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
Aminonaphthols, acidyl, dyestuffs made with, 1,426,299
—, dyestuff made with, 1,128,814; 1,259,499; 1,270,325; 1,282,355; 1,282,356; 1,426,299
—, dyestuff reduction product, 1,422,866
—, mfr. of, acetoacetic ether for, 1,270,325
—, —, 2-amino-5-naphthol-7-sulfonic acid, pyrazolone derivatives of, for, 1,270,325
—, —, 3-carboxy-2-hydroxy-5-sulfo-1-hydrazinobenzene for, 1,270,325
—, —, 4-chloranthranilic acid for, 1,270,325
—, —, process for, 1,270,325
—, —, pyrazolone, 2-amino-5-naphthol-7-sulfonic acid derivatives for, 1,270,325
—, —, sodium carbonate for, 1,270,325
—, —, sodium chloride for, 1,270,325
—, naphthoquinone made with, 1,318,631
—, tanning compound made with, 1,186,500
o-Aminonaphthol-dyestuff made with, 1,264,604; 1,286,411
1-Amino-2-naphthol, dyestuff decomposition product, 1,472,334
1-Amino-7-naphthol, see 8-Amino-2-naphthol
1:4-Aminonaphthol, *N*(4)phenylamino-1-naphthol made with, 1,460,774
2-Amino-5-naphthol, see 6-Amino-1-naphthol
3-Amino-2-naphthol, derivative of, dyestuff made with, 1,145,072
4-Amino-1-naphthol, 4-anilino-1-naphthol made with, 1,460,774
—, dyestuff made with, 1,140,747
4-Amino-2-naphthol, dyestuff made with, 1,140,747
5-Amino-1-naphthol, dyestuff made with, 1,140,747; 1,150,656; 1,245,694
—, insulation, electric, made with, 1,159,257
5-Amino-1-naphthol, rubber substitute made with, 1,159,257; 1,159,258
—, varnish made with, 1,159,257; 1,159,258
5-Amino-2-naphthol, dyestuff made with, 1,140,747
6-Amino-1-naphthol, dyestuff made with, 1,144,577
6-Amino-2-naphthol, dyestuff made with, 1,140,747
7-Amino-2-naphthol, dyestuff made with, 1,140,747
—, 7-(3′-hydroxy-2′-naphthoyl)-amino-2-naphthol made with, 1,140,747
8-Amino-2-naphthol, cellulose acetate, dyestuff for, made with, 1,483,797
—, 8-(*o*-chlorbenzamido)-2-naphthol made with, 1,188,544
—, 8-(*p*-chlorbenzamido)-2-naphthol made with, 1,188,544
—, 8-(*p*-chlor-benzene-sulfonamido)-2-naphthol made with, 1,188,544
—, 8-(2.4-dichlorbenzamido)-2-naphthol made with, 1,188,544
—, 8-(2.6-dichlorbenzamido)-2-naphthol made with, 1,188,544
—, 8-(2.5-dichlor-benzene-sulfonamido)-2-napththol made with, 1,188,544
—, dyestuff made with, 1,128,814; 1,140,747; 1,411,245; 1,483,797
1-Amino-2-naphthol alkyl ether, dyestuff made with, 1,180,985
Aminonaphthol compounds, ureids of, mfr. of, 1,308,071
—, —, *see also Ureids, aminonaphthol compounds*
Aminonaphthol-disulfonic acid, dyestuff made with, 1,128,814
—, tanning compound made with, 1,186,500
1-Amino-2-naphthol-3.6-disulfonic acid, dyestuff decomposition product, 1,472,334
1.5.2.7-Aminonaphthol-disulfonic acid, see 5-Amino-1-naphthol-3.6 disulfonic acid
1,8-Aminonaphthol-disulfonic acid, dyestuff made with, 1,126,656
1.8-Aminonaphthol-2.4-disulfonic acid, see 8-Amino-1-naphthol 5.7-disulfonic acid
1.8-Aminonaphthol-3.5-disulfonic acid, see 8-Amino-1-naphthol-4.6-disulfonic acid
1.8-Aminonaphthol-3.6-disulfonic acid, see 8-Amino-1-naphthol-3.6-disulfonic acid
1.8-Aminonaphthol-4.6-disulfonic acid, see 8-Amino-1-naphthol-5.7-disulfonic acid
1.8.2.4-Amononaphtholdisulfonic acid, see 8-Amino-1-naphthol-5.7-disulfonic acid
1.8.3.6-Aminonaphtholdisulfonic acid, see 8-Amino-1-naphthol-3.6-disulfonic acid
1.8.4.6-Aminonaphthol-disulfonic acid, see 8-Amino-1-naphthol-3.5-disulfonic acid
2-Amino-1-naphthol-4.8-disulfonic acid, dyestuff made with, 1,504,125
2-Amino-5-naphthol-1.7-disulfonic acid, 6-Amino-1-naphthol-3.5-disulfonic acid
2.5.1.7-Aminonaphthol-disulfonic acid, see 6-Amino-1-naphthol-3.5-disulfonic acid
2.8-Aminonaphthol-3.6-disulfonic acid, see 7-Amino-1-naphthol-3.6-disulfonic acid

2.8.3.6-Aminonaphthol-disulfonic acid, see 7-Amino-1-naphthol-3.6-disulfonic acid
5-Amino-1-naphthol-3.6-disulfonic acid, dyestuff made with, 1,218,654; 1,218,655
—, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
6-Amino-1-naphthol-3.5-disulfonic acid, derivative of, dyestuff made with, 1,265,030; 1,265,031; 1,282,354; 1,282,355; 1,282,356
—, dyestuff made with, 1,160,406; 1,218,654; 1,218,655; 1,265,030; 1,265,031; 1,282,354; 1,282,355; 1,282,356; 1,342,134
—, therapeutic compound made with, 1,218,654; 1,219,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
—, urea derivative of, dyestuff made with, 1,483,447
6-Amino-1-naphthol-3.8-disulfonic acid, dyestuff made with, 1,342,134
7-Amino-1-naphthol-3.6-disulfonic acid, dyestuff made with, 1,218,654; 1,218,655; 1,314,921; 1,314,922; 1,314,925; 1,314,926
—, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
8-Amino-1-naphthol-disulfonic acid, dyestuff made with, 1,308,071
—, therapeutic compound made with, 1,308,071
—, ureas made with, 1,308,071
8-Amino-1-naphthol-3.5-disulfonic acid, 8-(3′-(3″-amino-*p*″-anisoyl)-amino-*p*′-anisoyl)-amino-1-naphthol-3.5-disulfonic acid made with, 1,218,655; 1,308,071
—, 8-(*p*-amino-benzoylamino)-1-naphthol-3.5-disulfonic acid made with, 1,218,655; 1,308,071
—, 8-(4′-(4″-amino-cinnamylamino)-cinnamyl-amino)-1-naphthol-3.5-disulfonic acid made with, 1,218,654; 1,218,655; 1,308,071
—, 8-(m′-amino-cinnamylamino)-1-naphthol-3.5-disulfonic acid made with, 1,218,655; 1,308,071
—, compound, $C_{38}H_{26}O_{17}N_4S_4$, made with, 1,308,071
—, —, $C_{39}H_{30}O_{17}N_4S_4$, made with, 1,218,655; 1,308,071
—, —, $C_{53}H_{44}O_{23}N_6S_4$, made with, 1,218,655; 1,308,071
—, —, $C_{57}H_{44}O_{19}N_6S_4$, made with, 1,218,654; 1,218,655; 1,308,071
—, dyestuff made with, 1,128,814; 1,218,655; 1,227,406; 1,282,355; 1,282,356; 1,308,071; 1,314,921; 1,314,922; 1,314,925; 1,314,926
—, nitroanisoyl chloride, compound of and, 1,308,071
—, *p*-nitro-benzoyl chloride, compound of and, 1,308,071
—, *m*-nitro-cinnamyl chloride, compound of and, 1,038,071
—, *p*-nitro-cinnamyl-chloride, compound of and, 1,308,071
—, therapeutic compound made with, 1,218,654; 1,218,655; 1,308,071
—, thioureas made with, 1,218,654; 1,218,655
8-Amino-1-naphthol-3.5-disulfonic acid, ureas made with, 1,218,654; 1,218,655; 1,308,071
8-Amino-1-naphthol-3.6-disulfonic acid, 8-(m′-(m″-amino-benzoylamino)-benzoyl-amino-1-naphthol-3.6-disulfonic acid made with, 1,218,655
—, 8-(3′-amino-benzoylsulfonylamino)-1-naphthol-3.6-disulfonic acid made with, 1,218,654; 1,218,655
—, 3.3′-bis-(3.6-disulfo-8-hydroxy-1-naphthyl-aminosulfonyl)-carbanilide made with, 1,218,654; 1,218,655; 1,308,071
—, 8(3′-carboxy-4′-hydroxy-phenylene)-sulfonyl)-amino-1-naphthol-3.6-disulfonic acid made with, 1,126,489
—, 8-(3′ carboxy-4′-hydroxy-phenyl-sulfonamido)-1-naphthol-3.6-disulfonic acid made with, 1,126,489
—, compound, $C_{49}H_{36}O_{18}N_6S_5$, made with, 1,218,655
—, *o*-cresotinsulfonyl-1.8-aminonaphthol-3.6-disulfonic acid made with, 1,126,489
—, dye made with, 1,314,921; 1,314,922; 1,314,925
—, dyestuff made with, 1,126,489; 1,128,814; 1,199,233; 1,199,234; 1,216,760; 1,218,654; 1,218,655; 1,227,406; 1,237,183; 1,242,536; 1,245,694; 1,259,499; 1,264,604; 1,282,355; 1,282,356; 1,292,385; 1,308,071; 1,383,711; 1,395,238; 1,496,780; 1,500,915; 1,504,044
—, —, compound, copper, properties of, 1,292,385
—, mfr. of, autoclave for, 1,426,920
—, *m*-nitro-benzene-sulfochloride, compound of with, 1,308,071
—, *m*-nitro-benzoyl-residue, compound of with, 1,308,071
—, therapeutic compound made with, 1,218,654; 1,218,655; 1,308,071
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655; 1,308,071
8-Amino-1-naphthol-4.6-disulfonic acid, dyestuff made with, 1,265,030; 1,314,922; 1,314,925
8-Amino-1-naphthol-5.7-disulfonic acid, dyestuff made with, 1,216,760; 1,227,406; 1,242,536; 1,245,694; 1,259,499; 1,282,355; 1,292,385; 1,426,190
—, —, copper compound of, properties of, 1,292,385
—, mono-sodium salt of, dyestuff from, 1,426,190
1.8-Aminonaphthol-3.6-disulfonic acid H, see 8-Amino-1-naphthol-3.6-disulfonic acid
Aminonaphtholethers, dyestuff made with, 1,125,050; 1,270,290; 1,498,417
1-Amino-2-naphthol ether, dye made with, 1,319,852
—, dyestuff made with, 1,498,315
—, printing paste made with, 1,157,705
Aminonaphthol ether sulfonic acids, dyestuff made with, 1,125,050; 1,270,290
1-Amino-2-naphthol-ether-6-sulfonic acid, dyestuff made with, 1,319,852
1-Amino-2-naphthol-ether-7-sulfonic acid, dye made with, 1,319,852

1-Amino-2-naphthol-ethyl ether, see 1-Amino-2-naphthyl-ethyl ether
—, *see also 2-Ethoxy-1-naphthylamine*
1-Amino-2-naphthol ethyl ether-6-sulfonic acid, see 1-Amino-6-sulfo-2-naphthyl-ethyl ether
1-Amino-2-naphtholmethylether-6-sulfonic acid, see 1-Amino-2-methoxy-naphthalene-6-sulfonic acid
1.8-Aminonaphthol-4-monosulfonic acid, see 8-Amino-1-naphthol-5-sulfonic acid
Aminonaphthol-polysulfonic acid, dyestuff made with, 1,128,814
5-(1′-Amino-2′-naphthol-6′-sulfonylamino)-salicylic acid dyestuff reduction product, 1,128,813
1-Amino-2-naphthol-6-sulfonylsalicylamide, see 5-(1′-Amino-2′-naphthol-6′-sulfonylamino)-salicylic acid
Aminonaphthol sulfonic acid, dyestuff made with, 1,126,466; 1,127,261; 1,128,814; 1,150,675; 1,270,290
—, mfr. of, autoclave for, 1,426,920
—, reduction of iron and acetic acid for, 1,308,071
—, tanning compound made with, 1,186,500
Amino-2-naphthol-6-sulfonic acid, dyestuff reduction product, 1,128,813
o-Aminonaphthol sulfonic acid, dyestuff made with, 1,259,499
1-Amino-2-naphthol-4-sulfonic acid, compound, $C_{20}H_{15}O_5N_3S$, made with, 1,521,206
—, derivatives of, dyestuff made with, 1,488,411
—, diazo compound of, dyestuff made from, 1,437,753
—, dyestuff made with, 1,210,808; 1,216,760; 1,216,813; 1,227,406; 1,233,433; 1,237,183; 1,245,694; 1,402,350; 1,437,758; 1,504,469; 1,521,206
1-Amino-2-naphthol-6-sulfonic acid, dyestuff made with, 1,180,985; 1,488,411
—, dyestuff reduction product, 1,128,814
1-Amino-2-naphthol-7-sulfonic acid, dyestuff made with, 1,180,985
1-Amino-8-naphthol-4-sulfonic acid, see 8-Amino-1-naphthol-5-sulfonic acid
1-Amino-8-naphthol-5-sulfonic acid, see 8-Amino-1-naphthol-4-sulfonic acid
1.2.4-Amino-naphthol-sulfonic acid, see 1-Amino-2-naphthol-4-sulfonic acid
1.5.7-Amino-naphthol-sulfonic acid, see 5-Amino-1-naphthol-3-sulfonic acid
1.8-Aminonaphthol-sulfonic acid, dyestuff made with, 1,126,656
—, *m*-nitroanisoyl chloride compound of with, 1,308,071
—, *m*-nitro-benzene-sulfo-chloride, compound of with, 1,308,071
—, *p*-nitro-benzoyl chloride compound of with, 1,308,071
—, *m*-nitro-cinnamyl-chloride, compound of with, 1,308,071
—, ureids made from, 1,308,071
1.8-Aminonaphthol-4-sulfonic acid, see 8-Amino-1-naphthol-5-sulfonic acid
2-Amino-1-naphthol-4-sulfonic acid, dyestuff reduction product, 1,169,344; 1,504,134
2-Amino-5-naphthol-7-sulfonic acid, see 6-Amino-1-naphthol-3-sulfonic acid
2-Amino-8-naphthol-6-sulfonic acid, see 7-Amino-1-naphthol-3-sulfonic acid
2.5-Aminonaphthol-7-sulfonic acid, see 6-Amino-1-naphthol-3-sulfonic acid
2.5.1.7-Aminonaphtholsulfonic acid, see 6-Amino-1-naphthol-3.5-disulfonic acid
2.5.7-Aminonaphthol-sulfonic acid, see 6-Amino-1-naphthol-3-sulfonic acid
2.8-Aminonaphthol-6-sulfonic acid, see 7-Amino-1-naphthol-3-sulfonic acid
2.8.6-Aminonapholsulfonic acid, see 7-Amino-1-naphthol-3-sulfonic acid
3-Amino-2-naphthol-7-sulfonic acid, dyestuff made with, 1,159,375
5-Amino-1-naphthol-3-sulfonic acid, dyestuff made with, 1,218,654; 1,218,655; 1,245,694; 1,485,814
—, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
6-Amino-1-naphthol-3-sulfonic acid, compound, $C_{23}H_{16}O_9N_6S$, made with, 1,159,375
—, derivatives of, dyestuff made with, 1,265,030; 1,265,031; 1,282,354; 1,282,355; 1,282,356
—, dyestuff made with, 1,126,466; 1,126,656; 1,128,814; 1,150,675; 1,159,375; 1,160,406; 1,180,985; 1,185,413; 1,210,751; 1,210,808; 1,213,075; 1,216,760; 1,216,813; 1,218,654; 1,218,655; 1,227,406; 1,245,694; 1,265,030; 1,265,031; 1,270,290; 1,276,307; 1,282,354; 1,282,355; 1,282,356; 1,292,385; 1,319,852; 1,338,414; 1,342,134; 1,378,388; 1,472,333; 1,498,316
—, —, copper compound of, properties of, 1,292,385
—, printing paste made with, 1,157,705
—, pyrazolone derivative of, aminonaphthol made with, 1,270,325
—, —, *o*-amino-phenol made with, 1,270,325
—, —, anthranilic acid made with, 1,270,325
—, —, dyestuff made with, 1,270,325
—, —, 3-methyl-1-(3′-carboxy-2′-hydroxy-5′-sulfo)-phenyl-5-pyrazolone made with, 1,270,325
—, —, 3-methyl-1-(5′-chlor-2′-hydroxy-3′-sulfo-phenyl-5-pyrazolone made with, 1,270,325
—, —, pyrazolone derivative made with, 1,270,325
—, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
—, urea, from, tanning compound made with, 1,203,069
—, urea derivatives of, dyestuff made with 1,483,447
7-Amino-1-naphthol-3-sulfonic acid, compound, $C_{36}H_{23}O_{13}N_7Cl_2S_4$, made with, 1,270,290
—, dyestuff made with, 1,123,430; 1,126,466; 1,126,656; 1,150,675; 1,154,826; 1,173,077; 1,199,234; 1,201,544; 1,216,760; 1,218,654; 1,218,655; 1,245,694; 1,270,290; 1,314,921; 1,314,926; 1,359,969; 1,365,040; 1,371,979;

Re-15,182; 1,408,405; 1,416,621; 1,429,781; 1,496,780
7-Amino-1-naphthol-3-sulfonic acid, color lake made with, 1,434,619
—, lake made with, 1,434,619
—, printing paste made with, 1,157,705
—, tanning compound made with, 1,186,500
—, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
8-Amino-1-naphthol-sulfonic acid, dyestuff made with, 1,188,421; 1,308,071
—, therapeutic compound made with, 1,308,071
—, ureas made with, 1,308,071
8-Amino-1-naphthol-3.5-disulfonic acid, dyestuff made with, 1,218,654; 1,218,655
8-Amino-1-naphthol-4-sulfonic acid, dyestuff made with, 1,188,421; 1,245,694; 1,282,355; 1,282,356
8-Amino-1-naphthol-5-sulfonic acid, dyestuff made with, 1,126,466; 1,188,421; 1,216,760; 1,227,406; 1,245,694; 1,282,355; 1,282,356; 1,363,886; 1,372,439; 1,415,704; 1,457,235; 1,496,780
—, *p*-nitraniline combined with, 1,415,704
2-Amino-5-naphthol-7-sulfonic acid, *p*-aminophenylurea-methyl-ω-sulfonate dyestuff made with, 1,362,936
Amino-naphthol-sulfonic acid condensation product, cellulose ether, composition of and, 1,505,044
—, ethyl cellulose, composition of and, 1,505,044
—, filament, artificial, made with, 1,505,044
—, film made with, 1,505,044
—, leather, coating for, made with, 1,505,044
—, methyl cellulose, composition of and, 1,505,044
—, paper, coating for, made with, 1,505,044
—, plastic made with, 1,505,044
—, silk, artificial, made with, 1,505,044
—, sizing made with, 1,505,044
—, tannin substitute, 1,505,044
—, textile, coating for, made with, 1,505,044
1-Amino-6-naphthol-3-sulfonic acid diazo-a-naphthol-3-sulfonic acid, dyestuff from, copper compound of, properties of, 1,292,385
—, dyestuff made with, 1,292,385
Amino-naphthol-sulfonic acid formaldehyde condensate, cellulose ether, composition of and, 1,505,044
—, ethyl cellulose, composition of and, 1,505,044
—, filament, artificial, made with, 1,505,044
—, film made with, 1,505,044
—, leather, coating for, made with, 1,505,044
—, methyl cellulose, composition of and, 1,505,044
—, paper, coating for, made with, 1,505,044
—, plastic made with, 1,505,044
—, silk, artificial, made with, 1,505,044
—, sizing made with, 1,505,044
—, tannin substitute, 1,505,044
—, textile, coating for, made with, 1,505,044
Aminonaphthosulfonic acid G, rubber substitute made with, 1,159,258
—, salts of, rubber substitute made with, 1,159,258
Aminonaphthosulfonic acid G, varnish made with, 1,159,258
(Amino-naphthylazo)-anthraquinone, see 1-b-Anthraquinonylazo-2-naphthylamine
m-(4-Amino-1-naphthylazo,-benzenesulfonic acid, dyestuff made with, 1,193,829
1-Amino-2-naphthyl-ether, dyestuff made with, 1,150,675
1-Amino-2-naphthyl-ether sulfonic acid, dyestuff made with, 1,150,675
1-Amino-2-naphthyl ethyl ether, dyestuff made with, 1,452,083
2-Amino-1-naphthyl-thioglycolic acid, 2-acetyl-amino-1-naphthyl-thioglycolic acid made with, 1,498,913
—, dyestuff made with, 1,498,913
—, mfr. of, chlor-acetic acid for, 1,498,913
—, —, 2-naphthylamine hydrochloride for, 1,498,913
—, —, process for, 1,498,913
—, —, sodium hydroxide for, 1,498,913
—, —, sulfur chloride (S_2Cl_2), for, 1,498,913
N-(4'-Amino-1'-naphthyl)-p-toluenesulfonamide, see 4-Amino-1-(p-tolylsulfonamide)-naphthalene
Aminonitrobenzene, see Nitroaniline
Aminonitrobenzene (1.2), preparation of, 1,423,494
1.2-Aminonitrobenzene, see 2-Nitro-aniline
4-Amino-3-nitrobenzene-arsinic acid, see 3-Nitro-arsanilic acid
2-Amino-5-nitro-benzene-sulfonanilide, dyestuff made with, 1,429,781; 1,429,782
—, lake made with, 1,434,619
2-Amino-4-nitro-benzoic acid, see 4-Nitro-anthranilic acid
Amino-nitro-benzophenone, pigment made with, 1,166,808
2-Amino-4-nitro-6-chlor-1-oxybenzene, see 2-Amino-6-chlor-4-nitro-phenol
6-Amino-4-nitro-*o*-cresol, dyestuff made with, 1,292,385
Amino-nitro-*p*-cresol, dyestuff made with, 1,216,813; 1,227,406; 1,411,245
2-Amino-6-nitro-*p*-cresol, dyestuff made with, 1,216,760; 1,245,694; 1,292,385; 1,375,701; 1,485,814
—, —, copper compound of, properties of, 1,292,385
5-Amino-2-nitro-*p*-cresol, dyestuff made with, 1,411,245
3-Amino-6-nitro-1.4-cresol-methyl ether, see 6-Methyl-4-nitro-m-anisidine
Amino-nitro-diphenyl-sulfone, pigment made with, 1,166,808
4-Amino-3-nitro-1-methyl-benzene, see 2-Nitro-p-toluidine
2-Amino-6-nitro-4-methyl-1-oxybenzene, see 2-Amino-6-nitro-p-cresol
1-Amino-4-nitronaphthalene 6 (or 7) sulfonic acid, dye made with, 1,371,979; Re-15,182
1-Amino-5-nitro-2-naphthol-4-sulfonic acid, dyestuff made with, 1,233,433
2-Amino-4-nitro-1-naphthol-6-sulfonic acid, dyestuff made with, 1,233,433
2-Amino-4-nitro-1-naphthol-7-sulfonic acid, made with, 1,488,411

2-Amino-6-nitro-oxybenzene-4-sulfonamide, see 2-Amino-1-hydroxy-6-nitro-benzene-4-sulfonamide
2-Amino-6-nitro-oxybenzene-4-sulfonamide (sodium salts), dyestuff made with, 1,338,414
2-Amino-6-nitro-1-oxybenzene-4-sulfonic acid, see 4-Hydroxy-5-nitro-metanilic acid
(?)-Amino-(?)-nitro-phenol, dyestuff made with, 1,210,808
2-Amino-4-nitro-phenol, compound, $C_{23}H_{16}O_9N_6S$, made with, 1,159,375
—, dyestuff made with, 1,159,375; 1,210,808; 1,213,075; 1,216,760; 1,216,813; 1,227,406; 1,242,536; 1,245,694; 1,259,499; 1,264,604; 1,265,031; 1,276,307; 1,282,354; 1,282,355; 1,282,356; 1,292,385; 1,411,245; 1,485,814; 1,501,769
—, —, copper compound of, properties of, 1,292,385
—, *see also 2-Diazo-4-nitro-phenol*
2-Amino-5-nitrophenol, derivatives of, dyeing with, 1,416,646
—, dyestuff made with, 1,265,030; 1,292,385; 1,394,823
—, —, copper compound of, properties of, 1,292,385
—, skins dyed with, 1,416,646
3-Amino-4-nitro-phenol, diazotized, dyestuff made with, 1,501,769
2-Amino-4-nitro-phenol-6-sulfonic acid, see 2-Hydroxy-5-nitro-metanilic acid
—, *see also 3-Amino-2-hydroxy-5-nitro-benzene-sulfonic acid*
2-Amino-5-nitro-phenol-4-sulfonic acid, see 4-Hydroxy-6-nitro-metanilic acid
—, *see also 3-Amino-4-hydroxy-6-nitro-benzene-sulfonic acid*
2-Amino-6-nitro-phenol-4-sulfonic acid, see 4-Hydroxy-5-nitro-metanilic acid
4-Amino-2-nitro-phenol-6-sulfonic acid, see 6-Hydroxy-5-nitro-metanilic acid
2-Amino-5-nitro-*N*-phenyl-benzensulfonanilide, dyestuff made with, 1,429,781; 1,429,782
3-Amino-5-nitro-salicylic acid, dyestuff made with, 1,227,406; 1,245,694; 1,503,194
—, salicylic acid, dyestuff made with, 1,292,385
4-Amino-5-nitro-salicylic acid, dyestuff made with, 1,216,760
6-Amino-4-nitro-salicylic acid, see 3-Amino-5-nitro-salicylic acid
Amino-oxalic acid, see Oxamic acid
p-Amino-oxalylanilide, see p-Amino-oxanilide
p-Amino-oxanilic acid, dyestuff made with, 1,125,050; 1,150,656
p-Amino-oxanilide, urea derivatives of, dyestuff made with, 1,483,447
b-Amino-a-oxy-(2-amino-oxyphenyl)-ethane, see 2-Amino-a-aminomethyl-4-hydroxy-benzyl alcohol
1-Amino-4-oxyanthraquinone, see 1-Amino-4-hydroxy-anthraquinone,
1.4-Amino-oxy-benzene, see p-Amino-phenol
4-Amino-1-oxybenzene, see 4-Amino-phenol
—, *see also Aminophenol*
5-Amino-6-oxy-benzene-1-carboxylic acid-3-sulfonic acid, see 3-Amino-5-sulfo-salicylic acid
2-Amino-1-oxybenzene-4-sulfonamide, see 2-Amino-1-hydroxy-benzene-4-sulfonamide
2-Amino-1-oxybenzene-4-sulfonanilide, see 2-Amino-1-hydroxy-benzene-4-sulfonanilide
2-Amino-1-oxybenzene-4-sulfonic acid, see 2-Aminophenol-4-sulfonic acid
—, *see also 3-Amino-4-hydroxy-benzenesulfonic acid*
b-Amino-a-oxy-a-(o-dioxyphenyl)-ethane, see a-(Aminomethyl)-o-dihydroxy-benzyl alcohol
1-Amino-7-oxynaphthalene, see 8-Amino-naphthol
1-Amino-8-oxynaphthalene, see 1.8-Aminonaphthol
1-Amino-8-oxynaphthalene-2.4-disulfonic acid, see 8-Amino-1-naphthol-5.7-disulfonic acid
1-Amino-8-oxynaphthalene-3.6-disulfonic acid, see 8-Amino-1-naphthol-3.6-disulfonic acid
2-Amino-5-oxynaphthalene-1.7-disulfonic acid, see 6-Amino-1-naphthol-3.8-disulfonic acid
4-Amino-5-oxy-naphthalene-2.7-disulfonic acid, see 8-Amino-1-naphthol-3.6-disulfonic acid
1-Amino-2-oxynaphthalene-4-methylenesulfonic acid, see (4'-Amino-3'-hydroxy-1-naphthyl)-methanesulfonic acid
1-Amino-2-oxynaphthalene-4-sulfonic acid, see 1-Amino-2-naphthol-4-sulfonic acid
1-Amino-2-oxynaphthalene-6-sulfonic acid, see 1-Amino-2-naphthol-6-sulfonic acid
1-Amino-8-oxynaphthalene-4-sulfonic acid, see 8-Amino-1-naphthol-5-sulfonic acid
2-Amino-5-oxynaphthalene-7-sulfonic acid, see 6-Amino-1-amino-3-sulfonic acid
2-Amino-5-oxynaphthalene-1.7-sulfonic acid, see 6-Amino-1-naphthol-3.5-disulfonic acid
2-Amino-8-oxynaphthalene-6-sulfonic acid, see 7-Amino-1-naphthol-3-sulfonic acid
1-Amino-2-oxy-3-naphthoic acid, see 4-Amino-3-hydroxy-2-naphthoic acid
1-Amino-2.3-oxynaphthoic acid, see 4-Amino-3-hydroxy-2-naphthoic acid
1-Amino-2-oxynaphthoic acid anilide, see 4-Amino-3-hydroxy-2-naphthanilide
b-Amino-a-oxy-a-(trioxyphenyl-carboxylic acid)-ethane, see b-Amino-a-(carboxy-trihydroxy-phenyl)-ethanol
b-Amino-a-oxy-a-trioxyphenyl-ethane, see b-Amino-a-(trihydroxy-phenyl)-ethanol
Amino-papaverine, amino-methyl-norcoralydine made with, 1,176,597
—, mfr. of, hydrochloric acid for, 1,176,597
—, —, nitro-papaverine for, 1,176,597
—, —, process for, 1,176,597
—, —, tin for, 1,176,597
Aminopentane, see Amylamine
5-Amino-*o*-phenetidine, blue print made using, 1,499,930
—, dyestuff made with, 1,453,021
—, dyestuff reduction product, 1,159,375; 1,411,245
—, mfr. of, compound, $C_{23}H_{16}O_9N_6S$, for, 1,159,375
—, motion picture made with, 1,216,695
—, photographic developer made with, 1,207,042
—, photographic process using, 1,499,930
—, silver bromide made using, 1,499,930
—, *see also Amidol*

Amino-phenetole, see Phenetidine
—, *see also Ethoxy-aniline*
p-Amino-phenetole, see p-Phenetidine
Amino-phenole, chlorinated, finish remover made with, 1,167,640
—, dyestuff made with, 1,128,813; 1,128,814; 1,218,232; 1,259,499
—, finish remover made with, 1,167,640
—, rubber article preserved using, 1,422,115
—, rubber preserved using, 1,410,699; 1,422,115
m-Aminophenol, 2-amino-*a*-aminomethyl-4-hydroxy-benzyl-alcohol made with, 1,432,291
—, cellulose acetate, dyestuff for, made with, 1,483,797
—, dyestuff made with, 1,150,656; 1,282,355; 1,282,356; 1,483,797
—, printing paste made with, 1,157,705
—, rubber article preserved using, 1,422,115
—, rubber preserved using, 1,410,699; 1,422,115
—, rubber preserving composition contg., 1,422,115
—, rubber substitute made with, 1,159,258
—, varnish made with, 1,159,258
—, *see also 3-Amino-phenol*
o-Amino-phenol, 2-amino-6-nitro-phenol-4-sulfonic acid made with, 1,504,044
—, derivative of, dyestuff made with, 1,265,030; 1,265,031
—, dye from, 1,314,928
—, dyestuff made with, 1,159,375; 1,199,233; 1,259,499; 1,264,604; 1,265,030; 1,265,031; 1,270,325; 1,282,354; 1,282,355; 1,282,356; 1,286,411; 1,292,385; 1,417,869
—, —, copper compound of, properties of, 1,292,385
—, —, use of, 1,417,869
—, ether of, dyestuff made with, 1,243,170
—, mfr. of, acetoacetic ether for, 1,270,325
—, —, 2-amino-5-naphthol-7-sulfonic acid, pyrazolone derivatives of, for, 1,270,325
—, —, autoclave for, 1,426,920
—, —, 3-carboxy-2-hydroxy-5-sulfo-1-hydrazino-benzene for, 1,270,325
—, —, 4-chloranthranilic acid for, 1,270,325
—, —, process for, 1,270,325; 1,408,296
—, —, pyrazolone, 2-amino-5-naphthol-7-sulfonic acid derivatives for, 1,270,325
—, —, sodium carbonate for, 1,270,325
—, —, sodium chloride for, 1,270,325
—, nitro-derivatives of, dyestuff made with, 1,199,233
—, printing paste made with, 1,157,705
—, rubber article preserved using, 1,422,115
—, rubber preserved using, 1,410,699; 1,422,115
—, rubber preserving composition contg., 1,422,115
—, sodium formaldehyde sulfoxylate combined with, 1,454,748
p-Amino-phenol, aniline black made with, 1,350,600; 1,449,067
—, behenic acid, compound of and, 1,475,477
—, chicle contg., 1,259,794
—, cotton seed oil, rancid, compound of and, 1,475,477
—, *p*-dimethylamino-phenol, separation of from, 1,144,141
p-Amino-phenol, dye from, 1,314,928
—, dyestuff made with, 1,128,370; 1,128,371; 1,175,230; 1,209,580; 1,265,836; 1,265,837; 1,314,929; 1,350,600; 1,453,021
—, dyestuff, sulfur, made with, 1,125,311
—, ether of, dyestuff made with, 1,243,170
—, fat, compound of and, 1,475,477
—, fatty acid, compound of and, 1,475,477
—, fish oil, rancid, compound of and, 1,475,477
—, formation of, 1,431,470
—, fur dye made with, 1,453,021
—, furs dyed with, 1,466,747
—, garbage grease, compound of and, 1,475,477
—, gutta percha contg., 1,259,794
—, halogenated, dyestuff made with, 1,175,230
—, *p*-hydroxyphenyl-stibnic acid made with, 1,260,707
—, *p*-hydroxy-phenyl-stibnic acid, alkali salt of, made with, 1,260,707
—, —, ammonium salt of, made with, 1,260,707
—, *N*-(hydroxyphenyl)-*ar*-tetrahydro-1.4-naphthylenediamine made with, 1,175,230
—, *p*-hydroxy-phenyl-trimethylammonium, separation of from, 1,144,141
—, 6-hydroxy-2-piperonyl-cinchoninic acid made with, 1,185,265
—, indophenols made with, 1,125,311
—, ink made with, 1,449,067
—, insulation, electric, made with, 1,159,257
—, linoleic acid, compound of and, 1,475,477
—, mfr. of, aldehyde for, 1,431,470
—, —, antimony for, 1,239,822
—, —, apparatus for, 1,239,822
—, —, arsenic for, 1,239,822
—, —, autoclave for, 1,426,920
—, —, *p*-benzalamino-phenol for, 1,431,470
—, —, benzene for, 1,431,470
—, —, bismuth for, 1,239,822
—, —, calcium carbonate for, 1,501,472
—, —, calcium chloride for, 1,358,324
—, —, calcium hydroxide for, 1,239,822; 1,501,472
—, —, carbon cathode for, 1,239,822; 1,501,472
—, —, chromium cathode for, 1,239,822
—, —, chromium salt for, 1,239,822
—, —, copper for, 1,239,822
—, —, copper cathode for, 1,239,822
—, —, copper salt for, 1,239,822
—, —, copper sulfate for, 1,239,822
—, —, dimethyl sulfate for, 1,431,470
—, —, electrolytic process for, 1,239,822
—, —, hydrochloric acid for, 1,358,324; 1,431,470
—, —, hydrogen sulfide for, 1,358,324
—, —, iron for, 1,358,324
—, —, iron(ous) chloride for, 1,358,324
—, —, iron salt for, 1,239,822
—, —, lead anode for, 1,501,472
—, —, lead cathode for, 1,239,822
—, —, lead salt for, 1,239,822
—, —, mercury for, 1,239,822
—, —, mercury salt for, 1,239,822
—, —, methyl alcohol for, 1,501,472
—, —, nickel for, 1,239,822
—, —, nickel cathode for, 1,239,822
—, —, nitrobenzene for, 1,239,822; 1,431,470; 1,501,472

p-Amino-phenol, mfr. of, *p*-nitroso-phenol for, 1,358,324
—, —, platinum cathode for, 1,239,822
—, —, process for, 1,239,822; 1,358,324; 1,431,470; 1,501,472
—, —, silver cathode for, 1,239,822
—, —, sodium bisulfite for, 1,501,472
—, —, sodium carbonate for, 1,431,470
—, —, sodium chloride for, 1,358,324
—, —, sodium sulfite for, 1,501,472
—, —, sulfuric acid for, 1,239,822; 1,501,472
—, —, tin for, 1,239,822
—, —, tin cathode for, 1,239,822
—, —, toluene for, 1,431,470
—, —, xylene for, 1,431,470
—, mercuric acetate, reaction of with, 1,297,685
—, oil, compound of and, 1,475,477
—, oleic acid, compound of and, 1,277,708
—, —, —, mfr. of, alcohol for, 1,475,477
—, —, —, —, hydrochloric acid for, 1,475,477
—, —, —, —, potassium hydroxide for, 1,475,477
—, —, —, —, process for, 1,475,477
—, —, —, —, sodium chloride for, 1,475,477
—, —, —, —, sodium hydroxide for, 1,475,477
—, palmitic acid, action of and, 1,277,708
—, —, compound of and, 1,475,477
—, photographic developer contg., 1,158,011
—, photography, color, using, 1,279,248
—, preparation of, 1,358,324
—, printing paste made with, 1,157,705
—, rubber, artificial, made with, 1,259,794
—, rubber coagulum contg., 1,259,794
—, rubber substitute made with, 1,159,257
—, stearic acid, action of and, 1,277,708
—, —, compound of and, 1,475,477
—, varnish made with, 1,159,257
—, whale oil, rancid, compound of and, 1,475,477
2-Aminophenol, derivatives of, dyestuff made with, 1,411,245; 1,419,501
—, dyestuff made with, 1,213,075; 1,292,385; 1,408,296; 1,419,501
—, formation of, 1,408,296
2-Amino-1-phenol, dyestuff made with, 1,216,760; 1,485,814
3-Amino-phenol, dyestuff made with, 1,345,694
4-Amino-phenol, dye contg., 1,453,021
—, dyestuff made with, 1.453,021
—, fur dye contg., 1,453,021
—, hair dye contg., 1,453,021
p-Amino-phenol acetate, mfr. of, calcium carbonate for, 1,501,472
—, —, calcium hydroxide for, 1,501,472
—, —, carbon cathode for, 1,501,472
—, —, lead anode for, 1,501,472
—, —, methyl alcohol for, 1,501,472
—, —, nitrobenzene for, 1,501,472
—, —, process for, 1,501,472
—, —, sodium bisulfite for, 1,501,472
—, —, sodium sulfite for, 1,501,472
—, —, sulfuric acid for, 1,501,472
p-Aminophenol-allyl-ether, see p-Allyloxy-aniline
Aminophenol carboxylic acid, see Aminosalicylic acid
p-Aminophenol chloride, aniline black from, 1,449,067
—, ink made with, 1,449,067
p-Amino-phenol-diazo-*a*-naphthylamine-6-sulfonic acid, dyestuff made with, 1,292,385
—, —, copper compound of, properties of, 1,292,385
p-Amino-phenol hydrochloride, mfr. of, calcium carbonate for, 1,501,472
—, —, calcium hydroxide for, 1,501,472
—, —, carbon cathode for, 1,501,472
—, —, lead anode for, 1,501,472
—, —, methyl alcohol for, 1,501,472
—, —, nitrobenzene for, 1,501,472
—, —, process for, 1,501,472
—, —, sodium bisulfite for, 1,501,472
—, —, sodium sulfite for, 1,501,472
—, —, sulfuric acid for, 1,501,472
—, photographic developer contg., 1,158,011
—, preparation of, 1,358,324
p-Aminophenol-methylene-sulfoxylate, arsenic compounds, organic, prepared with, 1,454,748
—, toxicity of, 1,454,748
p-Amino-phenol sulfate, mfr. of, calcium carbonate for, 1,501,472
—, —, calcium hydroxide for, 1,501,472
—, —, carbon cathode for, 1,501,472
—, —, lead anode for, 1,501,472
—, —, methyl alcohol for, 1,501,472
—, —, nitrobenzene for, 1,501,472
—, —, process for, 1,501,472
—, —, sodium bisulfite for, 1,501,472
—, —, sodium sulfite for, 1,501,472
—, —, sulfuric acid for, 1,501,472
—, photographic developer contg., 1,158,011
2-Amino-1-phenol-sulfo-6-carboxylic acid, see 3-Amino-5-sulfo-salicylic acid
o-Amino-phenol-4-sulfonanilide, see 3-Amino-4-hydroxy-benzene-sulfonanilide
o-Aminophenol-4-sulfon-(4′-amino)-anilide, dye made with, 1,316,781
—, mfr. of, 1-chlor-2-nitro-benzene-4-sulfonyl chloride for, 1,316,781
—, —, hydrochloric acid for, 1,316,781
—, —, *p*-nitraniline for, 1.316,781
—, —, process for, 1,316,781
—, —, sodium carbonate for, 1,316,781
—, —, sodium hydroxide for, 1,316,781
—, —, sodium sulfide for, 1,316,781
o-Amino-phenol-4-sulfon-(3′carboxy-4′-hydroxy)-anilide, *b*-naphthol, compound of with, of, 1,316,781
Amino-phenol-sulfonic acid, see Amino-hydroxy-benzenesulfonic acid
o-Aminophenolsulfonic acid, see 4-Hydroxy-metanilic acid
o-Amino-phenol-p-sulfonic acid, see 4-Hydroxy-metanilic acid
2-Amino-phenol-4-sulfonic acid, see 4-Hydroxy-metanilic acid
2-Amino-1-phenol-4-sulfonic acid, see 4-Hydroxy-metanilic acid
2.1.4-Aminophenolsulfonic acid, see 4-Hydroxy-metanilic acid
p-(p-Aminophenyl)-acetanilide, see N-Acetyl-benzidine
Amino-phenyl-acetic acid, see a-Amino-a-toluic acid
Amino-phenyl-acetic acid chloride, see Amino-a-toluyl chloride

p-Aminophenylallyl ether, see p-Allyloxy-aniline
4-Aminophenyl allyl ether see p-Allyloxy-aniline
4-Aminophenylamide, see p-Phenylene diamine
9-(4′-Amino-phenyl)-3-amino-acridine, see Chrysaniline
ms-p-Aminophenyl-2-aminoacridine, see Chrysaniline
Amino-phenyl-amino-anthraquinone, mfr. of, 1,394,851
1-Amino-4-phenylamino-anthraquinone, see 1-Amino-4-anilino-anthraquinone
p-Aminophenyl-2.5.7-Aminonaphthol-sulfonic acid, see 6-(p-Amino-phenylamino)-1-naphthol-3-sulfonic acid
6-(*m*-Aminophenylamino)-1-naphthol-3-sulfonic acid, dyestuff made with, 1,160,406
6-(*p*-Aminophenylamino)-1-naphthol-3-sulfonic acid, dyestuff made with, 1,160,406
p-Amino-phenylarsenic acid, see Arsanilic acid
p-Amino-phenylarsinic acid, see Arsanilic acid
p-Amino-phenylarsinic acid acetanilide, (?), arsenic compound made with, 1,501,894
—, —, mfr. of, chloroacetanilide for, 1,501,894
—, —, —, process for, 1,501,894
—, —, —, sodium *p*-amino-phenyl-arsenite for, 1,501,894
—, —, trypanocidal compound made with, 1,501,894
p-Aminophenyl-arsinoxide, *N*-(*p*-arsinoso-phenyl)-glycinanilide made with, 1,280,121; 1,280,126
Amino-p-phenylarsonic acid, see Amino-hydroxy-benzenearsonic acid
p-Aminophenylarsonic acid, see Arsanilic acid
p-Aminophenyl-4-azimino-salicylic acid, see 5-Amino-1-(3′-carboxy-4′-hydroxy-phenyl)-1.2.3-benzotriazole
(Amino-phenylazo)-naphthylamine, dyestuff made with, 1,251,369
?-(*p′*-Amino-phenylazo)-1-naphthylamine, dyestuff made with, 1,505,568
p-Aminophenylazo-1-naphthylamine, insulation, electric, made with, 1,159,257
—, rubber substitute made with, 1,159,257; 1,159,258
—, varnish made with, 1,159,257; 1,159,258
1-(*p*-Aminophenyl)-benzothiazole-5-carboxylic acid, dyestuff made with, 1,125,073
—, mfr. of, acetyldehydrothiotoluidine for, 1,125,073
—, —, process for, 1,125,073
N-(p-Amino-phenyl)-diphenylamine, see 4.4′-Diamino-diphenylamine
p-Aminophenylene-ammonium-*p*-aminophenyl enedithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
o-Aminophenylether, see 2-Phenoxy-aniline
N-(*p*-Amino-phenyl)-glycine, dyestuff made with, 1,235,253
—, mfr. of, chlor-acetic acid for, 1,235,253
—, —, *p*-phenylenediamine for, 1,235,253
—, —, process for, 1,235,253
1-(3-Amino-phenyl)-5-hydroxy-*a*-naphthazole-7-sulfonic acid, dyestuff made with, copper compound of, properties of, 1,292,385
2-(*m*-Amino-phenyl)-9-hydroxy-*a*-naphthimidazole-4.7-disulfonic acid, dyestuff made with, 1,193,829; 1,241,153
?-(*m*-Aminophenyl)-5-hydroxy-1.2-naphthimidazole-7-sulfonic acid, dyestuff made with, 1,232,056
2-(*m*-Amino-phenyl)-6-hydroxy-*b*-naphthimidazole-8-sulfonic acid, dyestuff made with, 1,126,466; 1,150,656; 1,150,675; 1,160,406; 1,292,385
2-(*m*-Amino-phenyl)-6-hydroxy-*b*-naphthimidazole-8-sulfonic acid, dyestuff made with, 1,292,385
2-(*m*-Amino-phenyl)-9-hydroxy-*a*-naphthimidazole-6-sulfonic acid, dyestuff made with, 1,193,829
—, mfr. of, 7,8-diamino-1-naphthol-4-sulfonic acid for, 1,193,829
2-(*m*-Aminophenyl)-9-hydroxy-*a*-naphthimidazole-7-sulfonic acid, dyestuff made with, 1,193,829
2-(*p*-Aminophenyl)-6-hydroxy-*a*-naphthimidazole-8-sulfonic acid, dyestuff made with, 1,126,466; 1,160,406
2-(3-Aminophenyl)-6-hydroxy-*a*-naphthimidazole-8-sulfonic acid, dyestuff made with, copper compound of, properties of, 1,292,385
2-(3′-Aminophenyl)-6-hydroxy-*b*-naphthimidazole-8-sulfonic acid, dyestuff made with, 1,282,355; 1,282,356; 1,292,383; 1,342,134
Aminophenyl-8-hydroxy-naphthothiazole-6-sulfonic acid, dyestuff made with, 1,126,466
1-(*m*-Amino-phenyl)-5-hydroxy-*a*-naphthothiazole-7-sulfonic acid, dyestuff made with, 1,150,656; 1,265,030; 1,265,031; 1,282,355; 1,282,356
1-(*p*-Amino-phenyl)-5-hydroxy-*a*-naphthothiazole-7-sulfonic acid, dyestuff made with, 1,150,675
2-(*m*-Amino-phenyl)-5-hydroxy-naphthothiazole-7-sulfonic acid, dyestuff made with, 1,160,406
2-(*p*-Amino-phenyl)-5-hydroxy-naphthothiazole-7-sulfonic acid, dyestuff made with, 1,160,406
1-(3′-Aminophenyl)-5-hydroxy-*a*-naphthothiazole-7-sulfonic acid, dyestuff made with, 1,292,385; 1,342,134
1-(4′-Aminophenyl)-5-hydroxy-*a*-naphthothiazole-7-sulfonic acid, dyestuff made with, 1,342,134
2-(*m*-Aminophenyl)-6-hydroxy-*a.b*-naphthotriazole-8-sulfonic acid, dyestuff made with, 1,265,030; 1,265,031; 1,282,355; 1,282,356
2-(3′-Aminophenyl)-6-hydroxy-*a.b*-naphthotriazole-8-sulfonic acid, dyestuff made with, 1,342,134
a-(*m*-Aminophenyl)-*b*-(5-hydroxy-7-sulfo-2-naphthyl)-urea, dyestuff made with, 1,342,134
a-(*p*-Aminophenyl)-*b*-(5-hydroxy-7-sulfo-2-naphthyl)-urea, dyestuff made with, 1,342,134
1-*m*-Aminophenyl-5-keto-Δ^2-3-pyrazolinecarboxylic acid, dyestuff made with, 1,362,936
1-(4′-Amino-phenyl)-5-methyl-benzothiazole, 1-(4′-amino-3′-sulfo-phenyl)-5-methyl-benzothiazole-4-sulfonic acid made with 1,149,582
—, dyestuff made with, 1,159,386

1-(4'-Amino-phenyl)-5-methyl-benzothiazole, insulation, electric, made with, 1,159,257
—, rubber substitute made with, 1,159,257; 1,159,258
—, varnish made with, 1,159,257; 1,159,258
1-(4' Amino-phenyl)-5-methyl-benzothiazole-disulfonic acid, see 1-(4'-Amino-3'-sulfo-phenyl)-5-methyl-benzothiazole-4-sulfonic acid
1-(4'-Amino-phenyl)-5-methyl-benzothiazole-sulfonic acid, dyestuff made with, 1,159,386
—, preparation of, 1,441,655
1-(4'Amino-phenyl)-5-methyl-benzothiazole-4-sulfonic acid, 1-(4'-amino-3'-sulfo-phenyl)-5-methyl-benzothiazole-4-sulfonic acid made with, 1,149,582
1-(*p*-Aminophenyl)-3-methyl-5-chlor-pyrazole, *p*-(5'-chlor-3'-methyl-1'-pyrazolyl-benzene-arsonic acid made with, 1,507,694
Amino-phenyl methyl ether, see Anisidine
1-*m*-Aminophenyl-3-methyl-5-pyrazolone, dyestuff made with, 1,147,803
m-Aminophenyl-1.2-naphthimidazole-5-hydroxy-7-sulfonic acid, see 2-(m-Aminophenyl)-6-hydroxy-a-naphthimidazole-8-sulfonic acid
p-Aminophenyl-naphthimidazole-5-oxy-7-sulfonic acid, see 2-(p-Aminophenyl)-6-hydroxy-a-naphthimidazole-8-sulfonic acid
Aminophenyl-naphthothiazole-5-oxy-7-sulfonic acid, see 2(p-Aminophenyl)-5-hydroxy-naphthothiazole-7-sulfonic acid
Aminophenyl naphthylamine, formation of, 1,457,235
m-Amino-phenyl-*a*-naphthylamine, dyes made with, 1,327,688
m-Amino-phenyl-*b*-naphthylamine, dyes made with 1,327,688
m-Aminophenyl-8-oxy-1.2-naphthimidazole-3.6-disulfonic acid, see 2-(m-Aminophenyl)-9-hydroxy-a-naphthimidazole-4.7-disulfonic acid
m-Aminophenyl-8-oxy-1.2-naphthimidazole-5-sulfonic acid, see 2-(m-Aminophenyl)-9-hydroxy-a-naphthimidazole-6-sulfonic acid
m-Aminophenyl-8-oxy-1.2-naphthimidazole-6-sulfonic acid, see 2-(m-Aminophenyl)-9-hydroxy-a-naphthimidazole-7-sulfonic acid
3'-Aminophenyl-5-oxy-1.2-naphthimidazole-7-sulfonic acid-*N*-methyl-ω-sulfonate, dyestuff made with, 1,362,936
p-Aminophenyl-phenthiazole-carboxylic acid, see 1-(p-Aminophenyl)-benzothiazole-5-carboxylic acid
p-Aminophenyl-phenthiazole-sulfo-carboxylic acid, see 1-(p-Aminophenyl)-4-sulfo-benzothiazole-5-carboxylic acid
4-Amino-phenyl ether, see 2-Phenoxy-aniline
2-Amino-1-phenyl-1-propanol, see Mydriatin
a-Amino-a-phenylpropionic acid, see a-Amino-hydratropic acid
1.3-Aminophenyl-5-pyrazolone-3-carboxylic acid, dyestuff prepared with, 1,362,936
1.3'-Aminophenyl-5-pyrazolone-3-carboxylic acid, see 1-m-Aminophenyl 5-keto-Δ^2-3-pyrazoline carboxylic acid
m-Aminophenylprazolone-carboxylic acid methyl-ω-sulfonate, dyestuff made with, 1,362,936
2-Amino-1-(2'-phenyl-4'-quinolyl)-ethanol, mfr. of, alcohol for, 1,434,306
—, —, formic acid for, 1,434,306
—, —, hydrogen sulfide for, 1,434,306
—, —, isonitrosomethyl-2-phenyl-4-quinolyl ketone for, 1,434,306
—, —, process for, 1,434,306
—, —, sodium acetate for, 1,434,306
—, —, zinc dust for, 1,434,306
2-(*p*-Aminophenyl)-4-sulfo-benzothiazole-5-carboxylic acid, dyestuff made with, 1,125,074
—, mfr. of, acetyldehydrothiotoluidine sulfonic acid for, 1,125,074
—, —, permanganate for, 1,125,074
—, —, process for, 1,125,074
2-Amino-phenyl-sulfo-phenyl-ether, dyestuff made with, 1,166,346
1-Aminophenyl-3-sulfonic acid, see Metanilic acid
1-Aminophenyl-4-sulfonic acid, see Sulfanilic acid
(*p*-Aminophenyl)-urea, dyestuff made with, 1,483,447
—, dyestuff from derivatives of, 1,362,936
2-Amino-polyhalogen-phenols, dyestuff reduction products, 1,426,189
a-Amino-propionic acid, see Alanine
b-Amino-propionic acid, see b-Alanine
Aminopropyl alcohol, derivatives of, *p*-Aminobenzoic acid esters of, 1,474,567
—, —, *p*-aminocinnamic acid esters of, 1,474,567
Amino proteins, bread contg., 1,438,441
4-Amino-5-pyrazolone, dyestuff made with, 1,199,233
Amino-pyridine, cellulose acetate, dyeing of using, 1,517,581
—, silk, artificial, cellulose acetate, dyeing of using, 1,517,581
Aminoquinolines, dyestuff made with, 1,452,083
—, mfr. of, 2:3-oxynaphthoic acid, diazocomponents of anilide of, for, 1,452,083
—, —, —, diazocomponents of anisidide of, for, 1,452,083
—, —, —, diazocomponents of arylamide of, for, 1,452,083
—, —, —, diazocomponents of naphthalide of, for, 1,452,083
—, —, —, diazocomponents of nitroanilide of, for, 1,452,083
—, —, —, diazocomponents of phenetidide of, for, 1,452,083
—, —, —, diazocomponents of *p*-phenylenediamine of, for, 1,452,083
—, —, —, diazocomponents of toluidide of, for, 1,452,083
—, —, —, diazocomponents of di-*m*-toluylenediamine of, for, 1,452,083
o-Amino-quinoline, dyestuff made with, 1,452,083
—, naphthylamine and, dye of diazotized amino-azo-compound with 2:3-oxynaphthoic-a-naphthalid, 1,452,083

8-Amino-quinoline, 3-Acetyl-4.5-diketo-2-phenyl-1-quinolyl-pyrrolidine made with, 1,148,637
Amino-R-Acid, see 2-Naphthylamine-3.6-disulfonic acid
Amino-resorcinol, dyestuff reduction product, 1,125,050; 1,126,466; 1,150,656; 1,169,329; 1,173,077; 1,319,852; 1,422,866
—, dyestuff yielding, 1,365,706
4-Amino-resorcinol, dyestuff reduction product, 1,180,985; 1,422,866
6-Amino-resorcinol, dyestuff reduction product, 1,150,825
Aminoretene, diazotizing, 1,395,238
—, dyestuffs made with, 1,395,238
—, formation of, 1,395,238
—, *see also Retenamine*
Aminoretenequinone, diazotizing, 1,395,238
—, dyestuff made with, 1,395,238
—, preparation of, 1,395,238
Amino-rosin, see Rosin, amino-compound of
Aminosalicylic acid, dyestuff made with, 1,128,813; 1,270,290; 1,497,720
—, dyestuff reduction product, 1,157,169
—, photographic developer contg., 1,432,542
o-Amino-salicylic acid, see 3-Amino-salicylic acid
p-Amino-salicylic acid, see 5-Amino-salicylic acid
p-Amino-salicylic acid (?), dyestuff made with, 1,498,315
3-Amino-salicylic acid, dyestuff made with, 1,245,694; 1,503,194
4-Amino-salicylic acid, dyestuff made with, 1,216,813
5-Amino-salicylic acid, dyestuff made with, 1,210,808; 1,503,194
—, dyestuff decomposition product, 1,474,587
Aminosalicylic acid hydrochloride, photographic developer prepared with, 1,432,542
p-Aminosalicylic acid hydrochloride, photographic developer contg., 1,432,542
3-Amino-salicylic acid-5-sulfonic acid, see 3-Amino-5-sulfo-salicylic acid
Amino-succinic acid, see Aspartic acid
Amino-sulfanilic acid, see Diamino-benzenesulfonic acid
2-Amino-sulfanilic acid see 2.4-Diamino-benzene sulfonic acid
3.5-Aminosulfobenzoic acid, diazotizing, 1,338,506
2-Amino-4-sulfo-1.1′-diphenylsulfone, dyestuff made with, 1,467,711
2-Amino-4-sulfo-4′-methyl-1.1′-diphenylsulfone, see 2-Amino-4′-methyl-4′-sulfo-1.1′-diphenylsulfone
1-Amino-6-sulfo-2-naphthylethylether, dyestuff made with, 1,150,675
p-Amino-sulfo-oxanilic acid, dyestuff made with, 1,150,656
1-(4′-Amino-3′-sulfo-phenyl)-5-methyl-benzothiazole-4-sulfonic acid, dyestuff made with, 1,159,386; 1,483,447
—, mfr. of, 1-(4′-amino-phenyl)-5-methyl-benzothiazole for, 1,149,582
—, —, 1-(4′-amino-phenyl)-5-methyl-benzothiazole-4-sulfonic acid for, 1,149,582
1-(4′-Amino-3′-sulfo-phenyl)-5-methyl-benzothiazole-4-sulfonic acid, dyestuff made with, calcium hydroxide for, 1,149,582
—, —, process for, 1,149,582
—, —, sodium carbonate for, 1,149,582
—, —, sulfuric acid for, 1,149,582
—, —, sulfuric acid, fuming, for, 1,149,582
—, properties of, 1,149,582
Aminosulfosalicylic acid, see 3-Amino-5-sulfo-salicylic acid
o-Amino-sulfo-salicylic acid, dyestuff made with, 1,282,355
2-Amino-4-sulfo-salicylic acid, dyestuff made with, 1,216,812
3-Amino-5-sulfo-salicylic acid, dyestuff made with, 1,210,808; 1,216,760; 1,216,813; 1,227,406; 1,233,433; 1,234,994; 1,245,694; 1,292,385; 1,489,160
2-Amino-3.4.5.6-tetrachlor-phenol, dyestuff made with, 1,426,189
C-Amino-tetrazole, alkali earth salt of, detonator made with, 1,511,771
—, alkali salt of, detonator made with, 1,511,771
—, cadmium salt of, detonator made with, 1,511,771
—, detonator made with, 1,511,771
—, lead salt of, detonator made with, 1,511,771
—, metal salt of, detonator made with, 1,511,771
—, silver salt of, detonator made with, 1,511,771
Amino-tetrazotic acid, see C-Amino-tetrazole
4-Aminothioanisol, 1-amino-2-naphtholmethyl-ether and, dye of diazotized aminoazo compound with 2:3-oxynaphthoic *a*-naphthalid, 1,452,083
—, dyestuff made with, 1,452,083
6-Amino-thioindoxylcarboxylic acid, dyestuff made with, 1,461,435
1-Amino-2-thionaphthol, dyestuff made with, 1,452,805
—, sulfur dye made with, 1,452,805
2-Amino-1-thionaphthol, dyestuff made with, 1,452,805
—, sulfur dye made with, 1,452,805
Aminothiophenol, flotation by, chalcocite of, 1,364,307
—, —, chalcopyrite by, 1,364,307
—, —, copper sulfide by, 1,364,307
—, —, minerals by, 1,364,307
—, —, porphyry ore by, 1,364,307
—, flotation process using, 1,364,307
o-Amino-thiophenol, dyestuff made with, 1,452,805; 1,497,720
—, sulfur dye from, 1,452,805
—, zinc salt of, dyestuff made with, 1,452,805
o-Aminothiophenolmethyl ether, see o-Thioanisidine
4-Amino-thiosalicylic acid, 4-amino-*S*-argentothiosalicylic acid made with, 1,439,624
—, 4-amino-2-auromercapto-benzoic acid made with, 1,207,284
—, mfr. of, 2-amino-4-nitro-benzoic acid for, 1,207,284
—, —, copper-bronze for, 1,207,284
—, —, copper(ous) thiocyanate for, 1,439,624
—, —, hydrochloric acid for, 1,207,284
—, —, 4-nitro-anthranilic acid for, 1,439,624

4-Amino-thiosalicylic acid, mfr. of, 4-nitro-thiocyano-benzoic acid for, 1,207,284
—, —, potassium thiocyanate for, 1,207,284; 1,439,624
—, —, process for, 1,207,284; 1,439,624
—, —, sodium hydroxide for, 1,207,284
—, —, sodium nitrate for, 1,207,284
—, —, sodium sulfide for, 1,207,284
—, properties of, 1,207,284
—, sodium 4-amino-2-auromercapto-benzoate made with, 1,207,284
—, sodium 7-amino-1-naphthol-3.6-disulfonate diazotized with, 1,439,624
Amino-toluene, see Toluidine
p'-Aminotoluene-2'-sulfo-2-amino-6-chlor-phenol-6-sulfonic acid, dyestuff made with, 1,127,234
—, dyestuff reduction product, 1,127,234
p'-Aminotoluene-2'-sulfo-2-amino-6-chlor-phenol-4-sulfonic acid, dyestuff made with, 1,127,234
6-Amino-*m*-toluene-sulfonic acid, dyestuff made with, 1,504,469
Amino-toluic acid, alkamine esters of, mfr. of, 1,317,251
o-Amino-p-toluic acid, diethylaminoethanol ester of, see N-Diethylaminoethyl-o-amino-p-toluate
—, N-diethyl-amino-ethyl ester of, mfr. of, 1,317,251
p-Amino-o-toluic acid, diethylaminoethanol ester of, see N-Diethyl-amino-ethyl-p-amino-o-toluate
1-Amino-4-toluido-anthraquinone-2-mercaptan, dyestuff made with, 1,126,475
Amino-*a*-tolyl-chloride, therapeutic compound made with, 1,218,654; 1,218,655
—, thioureas made with, 1,218,654; 1,218,655
—, ureas made with, 1,218,654; 1,218,655
Amino-*p*-tolyl-amino-anthraquinone, mfr. of, 1,394,851
1-Amino-4-p-tolylamino-anthraquinone-2-sulfonic acid, mfr. of, 1-amino-4-brom-anthraquinone-2-sulfonic acid for, 1,131,516
—, —, 1-amino-4-halogen-anthraquinone-2-sulfonic acid for, 1,131,516
—, —, copper as catalyst for, 1,131,516
—, —, copper compound as catalyst for, 1,131,516
—, —, copper sulfate as catalyst for, 1,131,516
—, —, 2-naphthylamine for, 1,131,516
—, —, process for, 1,131,516
—, —, sodium carbonate for, 1,131,516
—, —, 4-toluidine for, 1,131,516
4-Amino-1-(*p*-tolylsulfonamido)-naphthalene, mfr. of, acetic acid for, 1,442,818
—, —, acids for, 1,442,818
—, —, alcohol for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzenediazonium chloride for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthalene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, 1-naphthylamine for, 1,442,818
4-Amino-1-(*p*-tolylsulfonamido)-naphthalene, mfr. of, *N*(1'-naphthyl)-p-toluenesulfonamide for, 1,442,818
—, —, process for, 1,442,818
—, —, sodium acetate for, 1,442,818
—, —, carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, sodium sulfide for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818
—, —, titanium(ous) chloride for, 1,442,818
—, —, *o*-toluene-diazonium chloride for, 1,442,818
—, —, *p*-toluene-diazonium chloride for, 1,442,818
—, —, *p*-toluenesulfonyl chloride for, 1,442,818
—, —, zinc dust for, 1,442,818
4-Amino-1-(*p*-tolylsulfonamido)-naphthalene-2-sulfonic acid, mfr. of, acetic acid for, 1,442,818
—, —, acids for, 1,442,818
—, —, 1-amino-naphthalene-2-sulfonic acids for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzene-diazonium chloride for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthalene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, process for, 1,442,818
—, —, pyridine for, 1,442,818
—, —, sodium acetate for, 1,442,818
—, —, sodium carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818
—, —, titanium(ous) chloride for, 1,442,818
—, —, *o*-toluene-diazonium chloride for 1,442,818
—, —, *p*-toluene-diazonium chloride for, 1,442,818
—, —, *p*-toluenesulfonyl chloride for, 1,442,818
—, —, zinc dust for, 1,442,818
4-Amino-1-(*p*-tolylsulfonamido)-naphthalene-6-sulfonic acid, mfr. of, acetic acid for, 1,442,818
—, —, acids for, 1,442,818
—, —, 1-amino-naphthalene-6-sulfonic acid for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzene-diazonium chloride for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthalene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, process for, 1,442,818
—, —, pyridine for, 1,442,818
—, —, sodium acetate for, 1,442,818
—, —, sodium carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, sodium sulfide for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818

4-Amino-1-(*p*-tolylsulfonamido)-naphthalene-6-sulfonic acid, mfr. of, titanium(ous) chloride for, 1,442,818
—, —, *o*-toluene-diazonium chloride for 1,442,818
—, —, *p*-toluene-diazonium chloride for 1,442,818
—, —, *p*-toluenesulfonyl chloride for, 1,442,818
—, —, zinc dust for, 1,442,818
4-Amino-1-(*p*-tolylsulfonamido)-naphthalene-7-sulfonic acid, mfr. of, acetic acid for, 1,442,818
—, —, acids for, 1,442,818
—, —, 1-amino-naphthalene-7-sulfonic acid for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzene-diazonium chloride for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthalene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, process for, 1,442,818
—, —, pyridine for, 1,442,818
—, —, sodium acetate for, 1,442,818
—, —, sodium carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, sodium sulfide for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818
—, —, titanium(ous) chloride for, 1,442,818
—, —, *o*-toluene-diazonium chloride for, 1,442,818
—, —, *p*-toluene-diazonium chloride for 1,442,818
—, —, *p*-toluene-sulfonyl chloride for, 1,442,818
—, —, zinc dust for, 1,442,818
4-Amino-1-(-*p*-tolylsulfonamido)-naphthalene-8-sulfonic acid, mfr. of, acetic acid for, 1,442,818
—, —, acids for, 1,442,818
—, —, 1-amino-naphthalene-8-sulfonic acid for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzene-diazonium chloride for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthalene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, process for, 1,442,818
—, —, pyridine for, 1,442,818
—, —, sodium acetate for, 1,442,818
—, —, sodium carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, sodium sulfide for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818
—, —, titanium(ous) chloride for, 1,442,818
—, —, *o*-toluene-diazonium chloride for, 1,442,818
—, —, *p*-toluene-diazonium chloride for 1,442,818
—, —, *p*-toluenesulfonyl chloride for, 1,422,818
—, —, zinc dust for, 1,442,818
N-(4-Amino-3-(*p*-tolylsulfonyl)-phenyl)-phthalamic acid, dyestuff made with, 1,359,969
N-(4-Amino-3)-(*p*-tolylsulfonyl-phenyl)-phthalimide, dyestuff made with, 1,359,969
2-Amino-3.4.5-trichlor-phenol, dyestuff made with, 1,408,297; 1,426,190; 1,431,655
2-Amino-3.4.6-trichlor-phenol, dyestuff made with, 1,408,297; 1,419,501; 1,426,189; 1,426,190
1-Amino-4.5.8-trihydroxyanthraquinone, anthraquinone derivatives made with, 1,437,783
b-Amino-a-(trihydroxy-phenyl)-ethanol, see a-(Aminomethyl)-o-dihydroxy-benzyl alcohol
Amino-trinitro-phenol, lead salt of, primer made with, 1,478,429
1-Amino-4.5.8-trioxyanthraquinone, see 1-Amino-4.5.8-trihydroxyanthraquinone
Amino-urea, see Semicarbazide
Amino-xylene, see Xylidine
4-Amino-2.5-xylidine, see 2.5-Diamino-p-xylidine
Amino-, see also Amido
Ammo, see Ammonium carbonate
Ammonal, explosive contg., 1,444,594
Ammonate of copper sulfate, see Copper ammino-sulfate, $CuHSO_4 5NH_3$
Ammonia, absorbent for, ammonium sulfate as, 1,291,729
—, —, iodine in, 1,321,061
—, —, iodine pentoxide in, 1,321,061
—, —, sulfuric acid, fuming in, 1,321,061
—, absorbing, 1,428,879
—, —, acid for, 1,375,475; 1,375,476; 1,375,477; 1,375,478; 1,375,484; 1,375,485
—, —, hydrochloric acid for, 1,465,677
—, —, sulfuric acid for, 1,356,885; 1,423,716; 1,465,677
—, absorption of, ammonium nitrate for, 1,319,663
—, —, apparatus for, 1,216,059; 1,462,363
—, —, calcium chloride for, 1,319,663
—, —, charcoal for, 1,319,663
—, —, process for, 1,216,059; 1,462,363
—, —, sodium sulfate (acid) for, 1,366,302; 1,366,303
—, —, water for, 1,319,663; 1,386,760
—, acetaldehyde ammonia from, 1,408,826
—, acetaldehyde, catalyst for the mfr. of, made with, 1,376,665
—, —, mfr. of, effected by, 1,310,743
—, acetonitrile from, 1,421,743
—, acetylene as impurity in, 1,313,886
—, —, removal of, 1,318,936
—, acid, neutralization of, using, 1,370,666
—, action of acetyl chloride on, 1,357,160
—, action of acetylene on, 1,421,743
—, action of benzene sulfone chloride on, 1,357,160
—, action of ethyl chloride on, 1,357,160
—, action on aldehydes, 1,355,899
—, adrenaline made with, 1,423,101
—, air, action of with, 1,292,814
—, —, helium, separation of from using, 1,496,757
—, —, hydrogen, separation of from using, 1,496,757
—, —, removal from of, apparatus for, 1,141,266; 1,213,796

Ammonia, absorbent for, removal from of, castor oil, sulfonated for, 1,213,796
—, —, —, process for, 1,213,796
—, air constituent, 1,218,584
—, airplane fabric fireproofed with, 1,427,941
—, alcohol, solidified, made with, 1,484,190
—, alcoholic, dimethyl-diphenyl-urea made with, 1,477,087
—, —, thiocarbanilide desulfurized by, 1,422,506
—, aldehyde ammonia compounds made with, 1,456,702
—, aldehyde-ammonia from acetylene and, 1,450,983
—, *aldehyde compound of, see Aldehyde-ammonia*
—, alkali amide made with, 1,163,498; 1,359,080
—, alkali cyanamide made with, 1,163,498; 1,483,411
—, alkali cyanide made with, 1,163,498; 1,311,231; 1,483,411
—, alkali cyanide solvent, 1,352,175
—, alkali earth cyanamide made with, 1,483,411
—, alkali earth cyanide made with, 1,483,411
—, alkali earth nitrate made with, 1,507,993
—, alkali earth sulfate made with, 1,127,219
—, alkali earth thiosulfate made with, 1,127,219
—, alkali metal, lead alloy contg., treatment of using, 1,197,329
—, alkali nitrate made with, 1,507,993
—, alkali sulfate made with, 1,127,219
—, alkali thiosulfate made with, 1,127,219
—, alkaloids extracted by, 1,447,400
—, *N*-alkyl-toluenesulfonamide made with, 1,353,385
—, *N*-alkyl-*o*-toluenesulfonamide made with, 1,501,206
—, *N*-alkyl-*p*-toluene sulfonamide made with 1,501,206
—, *N*-alkyl-xylenesulfonamide made with, 1,353,384; 1,353,385; 1,501,206
—, alginate gels prepared with, 1,415,324
—, alginic acid extracted from seaweed by, 1,348,459
—, alloy resistant to, 1,385,223
—, aluminum, steel alloy contg., hardening of using, 1,487,554
—, aluminum acetate, therapeutic compound of, made with, 1,132,709
—, aluminum hydroxide made with, 1,507,993
—, aluminum hydroxide precipitated with, 1,300,110; 1,336,508; 1,337,191; 1,337,192
—, aluminum oxide made with, 1,162,130
—, ammonia, catalyst for mfr. of, made with, 1,141,947; 1,141,948; 1,143,366; 1,148,570; 1,159,364; 1,159,365; 1,225,755; 1,439,291; 1,439,292; 1,483,412
—, —, mfr. of, catalyst for made with, 1,151,537
—, ammoniae, crude, recovery from of, 1,253,571
—, ammonia producing catalyst made with, 1,473,543; 1,473,544
—, ammonium acetate from, 1,423,494
—, ammonium bicarbonate made with, 1,211,393
—, ammonium bifluoride made with, 1,235,552
—, ammonium bisulfate made with, 1,291,745
—, ammonium bromide made with, 1,292,016
—, ammonium carbamate made with, 1,211,393; 1,344,673
Ammonia, ammonium carbonate made with, 1,152,245; 1,209,258; 1,211,393; 1,300,110; 1,344,673
—, ammonium carbonate from sodium bicarbonate and, 1,359,097
—, ammonium chloride made with, 1,249,739; 1,464,990; 1,473,966; 1,484,932; 1,488,002; 1,491,672; 1,492,661
—, ammonium chloride recovery as, process for, 1,452,009
—, ammonium chloride produced in fog screen by, 1,358,084
—, ammonium chromate made with, 1,326,123
—, ammonium cyanate made with, 1,144,457
—, ammonium fluoride made with, 1,235,552
—, ammonium formate made with, 1,212,359
—, ammonium metaphosphate made with, 1,284,200; 1,514,912
—, ammonium metaphosphate (NH_4PO_3), made with, 1,194,077
—, ammonium nitrate made with, 1,165,368; 1,206,062; 1,206,063; 1,217,247; 1,237,884; 1,252,976; 1,256,513; 1,306,924; 1,310,479; 1,315,534; 1,315,674; 1,330,136; 1,464,991; 1,517,870
—, ammonium nitrite made with, 1,237,884
—, ammonium oleate made with, 1,392,013
—, ammonium perchlorate made with, 1,273,477
—, ammonium phosphate ($NH_4H_2PO_4$), made with, 1,142,068; 1,151,074; 1,151,633; 1,167,788; 1,191,615; 1,194,077; 1,208,877; 1,264,513; 1,264,514; 1,276,870; 1,369,763; 1,514,912
—, —, $(NH_4)_2HPO_4$, made with, 1,264,513; 1,264,514; 1,276,870; 1,514,912
—, —, $(NH_4)_3PO_4$, made with, 1,276,870; 1,514,912
—, ammonium phosphate made with, 1,369,763; 1,456,831; 1,456,850
—, ammonium pyrophosphate made with, 1,514,912
—, ammonium pyrophosphate ($(NH_4)_2H_2P_2O_7$), made with, 1,194,077
—, ammonium salt made with, 1,160,836; 1,162,130
—, ammonium sulfate made with, 1,127,219; 1,133,086; 1,152,244; 1,152,245; 1,155,385; 1,155,753; 1,160,836; 1,163,752; 1,163,753; 1,165,368; 1,184,839; 1,206,062; 1,206,063; 1,217,247; 1,266,147; 1,291,745; 1,310,479; 1,313,023; 1,315,534; 1,321,993; 1,322,757; 1,322,758; 1,325,605; 1,331,784; 1,332,419; 1,386,760; 1,462,576; 1,496,410; 1,508,736; 1,511,560; 1,516,720
—, ammonium sulfate, neutral, made with, 1,310,306
—, ammonium sulfate neutralized with, 1,328,342; 1,412,549
—, ammonium sulfate from sodium bisulfate and, 1,366,301
—, ammonium sulfide formation from 1,423,710; 1,423,711; 1,423,712
—, ammonium sulfite made with, 1,160,836; 1,295,635; 1,427,863; 1,508,736
—, ammonium thionamate made with, 1,496,410
—, ammonium thiosulfate made with, 1,127,219
—, amyloid, waterproofing of using, 1,499,025

Ammonia, anhydrous, see Ammonia, liquid
—, anthraquinone derivatives made with, 1,437,783
—, antiseptic made with, 1,226,394
—, arsine, removal of from, carbon, impregnated, for, 1,519,470
—, —, —, process for, 1,519,470
—, asphalt emulsified with, Re-15,401; (956,009)
—, *aqueous solutions of, see Ammonium hydroxide*
—, *aqueous, see Ammonium hydroxide*
—, barium cyanamide made with, 1,352,177; 1,352,178; 1,352,179
—, barium ferrocyanide in mfr. of, 1,452,027
—, battery, dry, made with, 1,484,779
—, —, primary, made with, 1,484,781
—, —, storage, electrode for, made with, 1,498,866
—, beeswax glycerol water emulsion prepared with, 1,415,324
—, belting made with, 1,180,902
—, benzene, solidified, made with, 1,484,190
—, benzene-methyl-ethyl-sulfonamide prepared with, 1,454,959; 1,454,960; 1,454,961
—, benzene, *mono*-methyl-sulfonamide prepared with, 1,454,959; 1,454,960; 1,454,961
—, benzine made with, 1,221,698
—, beryllium carbonate made with, 1,473,543; 1,473,544
—, bitumen vulcanizing accelerator, 1,464,481
—, blood albumin prepared with, 1,415,277
—, boron carbide made with, 1,501,419
—, boron nitride made with, 1,337,264
—, brine treated with, 1,466,352
—, brine treated for recovery of, 1,386,244
—, butane, solidified, made with, 1,484,190
—, cadmium made with, 1,204,843
—, calcium cyanamide made with, 1,352,177; 1,352,178; 1,352,179
—, calcium cyanamide purified using, 1,352,177; 1,352,178; 1,352,179
—, calcium cyanide made with, 1,352,177; 1,352,178; 1,352,179
—, calcium (metallic) dissolved by, 1,352,177; 1,352,179
—, calcium hydrogen nitride ($Ca_3N_2.N_2H_6$), for mfr. of, 1,147,184
—, calcium hydroxide for liberating, 1,343,441
—, calcium urea phosphate made with, 1,280,650
—, camphoric acid derivatives made with, 1,406,547
—, carbohydrate, action on of, 1,173,336
—, carbohydrate phosphoric acid esters made with, 1,129,321
—, carbohydrate phosphoric acid ester, calcium salt of, made with, 1,129,321
—, carbon, decolorizing, made with, 1,189,896
—, —, —, revivifying of, using, 1,189,896
—, carbon dioxide and, calcium sulfate converted to carbonate by, 1,460,898
—, carbon dioxide, removal from of, 1,519,932
—, carbon dioxide absorbed by, 1,425,577
—, carbon monoxide made with, 1,514,912
—, carbon oxysulfide, gas, removal of from, using, 1,504,624
Ammonia, carbon oxysulfide, hydrogen removal from of, using, 1,504,624
—, carbon remover made with, 1,205,264
—, carbon tetrachloride, solidified, made with, 1,484,190
—, cardboard, composite, made with, 1,354,154
—, —, sized, waterproofing of using, 1,499,025
—, —, unsized, waterproofing of using, 1,499,025
—, —, waterproofing of using, 1,499,025
—, cartridge shell, paper, made with, 1,135,356
—, case-hardening using, 1,152,959
—, casein plate made with, 1,395,834
—, casein solvent, 1,400,381; 1,420,173
—, catalyst made with, 1,322,291; 1,473,543; 1,473,544
—, catalyst, (for acetaldehyde mfr.), made with, 1,376,665
—, —, (for ammonia mfr.), made with, 1,141,947; 1,141,948; 1,143,366; 1,148,570; 1,159,364; 1,159,365; 1,225,755; 1,352,177; 1,352,178; 1,352,179; 1,439,291; 1,439,292; 1,483,412
—, —, (hydrocyanic acid mfr.) made with, 1,352,176; 1,492,194
—, —, hydrogenation, made with, 1,159,480; 1,210,367
—, —, nickel as, made with, 1,327,396; 1,329,323
—, catalyst for ammonia synthesis regenerated with, 1,454,599
—, catalyst for oxidation of, apparatus for, 1,270,989
—, —, preparation of, 1,347,158; 1,347,159; 1,347,160
—, catalyst in phenol-acetone condensation, 1,397,144
—, catalyst in phenol-aldehyde condensate mfr., 1,377,519; 1,442,173
—, catalyst in phenol-furfural condensate mfr., 1,398,146; 1,398,147; 1,398,148; 1,398,149
—, celluloid substitute made with, 1,501,206
—, cellulose, action on of, 1,173,336
—, —, nitrated, precipitated on fibers by, 1,398,804
—, —, waterproofing of using, 1,499,025
—, cellulose dissolved by copper and, 1,390,995
—, cellulose acetate made with, 1,173,336
—, cellulose benzoate made with, 1,173,336
—, cellulose butyrate made with, 1,173,336
—, cellulose hydrate, waterproofing of using, 1,499,025
—, cellulose nitrate made with, 1,173,336
—, cellulose nitrate solvent, 1,439,293
—, cellulose nitrate solvent of benzene and, 1,439,293
—, cellulose nitrate solvent of benzine and, 1,439,293
—, cellulose nitrate solvent of butyl acetate and, 1,439,293
—, cellulose nitrate solvent of butyl alcohol and, 1,439,293
—, cellulose nitrate solvent of carbon tetrachloride and, 1,439,293
—, cellulose nitrate solvent of chlorethane and, 1,439,293
—, cellulose nitrate solvent of chloroform and, 1,439,293

Ammonia, cellulose nitrate solvent of chlorinated hydrocarbon and, 1,439,293
—, cellulose nitrate solvent of dichlorethane and, 1,439,293
—, cellulose nitrate solvent of ethyl acetate and, 1,439,293
—, cellulose nitrate solvent of ethyl alcohol and, 1,439,293
—, cellulose nitrate solvent of hydrocarbon and, 1,439,293
—, cellulose nitrate solvent of methyl acetate and, 1,439,293
—, cellulose nitrate solvent of methyl alcohol and, 1,439,293
—, cellulose nitrate solvent of *mono*-chlorethane and, 1,439,293
—, cellulose nitrate solvent of naphthalene and, 1,439,293
—, cellulose nitrate solvent of propyl acetate and, 1,439,293
—, cellulose nitrate solvent of propyl alcohol and, 1,439,293
—, cellulose nitrate solvent of tetrachlorethane and, 1,439,293
—, cellulose nitrate solvent of trichlorethane and, 1,439,293
—, cellulose palmitate made with, 1,173,336
—, cellulose sulfite liquor concentrated using, 1,440,026
—, cement made with, 1,354,154
—, cerium nitrate decomposed with, 1,436,359
—, chloramine made with, 1,480,166
—, chloramine, action of on, 1,480,166
—, 4-chlor-2.6-dinitro-aniline made with, 1,423,494
—, 4-chlor-2.6-dinitro-*m*-phenylenediamine made with, 1,423,494
—, *chlorhydrate of, see Ammonium chloride*
—, 2-chlor-4-nitro-aniline made with, 1,423,494
—, 4-chlor-2-nitro-aniline made with, 1,423,494
—, chromium, steel alloy contg., hardening of, using, 1,487,554
—, chromium compounds made with, 1,228,622
—, city waste for producing, 1,354,733
—, clay, deflocculated, made with, 1,419,951; 1,431,081; 1,458,693
—, clay peptized by, 1,418,976
—, clothing, sealed package of made sterile using, 1,180,894
—, coal, bituminous, for, 1,210,598
—, coal briquette made with, 1,452,992
—, coal distillate, solidified, made with, 1,484,190
—, coal distillation by-product, 1,204,789
—, coal gas, recovery from of, apparatus for, 1,132,594; 1,150,837; 1,237,767; 1,244,903
—, —, removal from of, glycerol for, 1,237,767
—, —, —, process for, 1,237,767
—, —, recovery from of, process for, 1,244,903
—, —, —, sulfuric acid for, 1,244,903
—, coal oil tar contg., aluminum chloride, removal from of with, 1,311,987
—, coating for cylinder contg., 1,292,903
—, cobalt made with, 1,204,843
—, cocoa powder made with, 1,243,244
—, coke made with, 1,462,576
—, coke, by-product, 1,255,593
Ammonia, coke oven, by-product, recovery of, 1,291,729; 1,291,730
—, coke-oven gas contg., separation from of, apparatus for, 1,320,369
—, condensation of, apparatus for, 1,259,810
—, copal dissolved by, 1,365,891
—, copper made with, 1,131,986; 1,204,843; 1,238,951
—, copper(ous) cyanide, reaction with, 1,413,762
—, copper oxide made with, 1,238,951
—, copper plated ceramic ware cleaned with 1,438,799
—, *copper solutions of, see Cuprammonium solutions*
—, core compound made with, 1,514,731
—, cork, waterproofing of using, 1,499,025
—, cotton, waterproofing of using, 1,499,025
—, cotton seed treated with, 1,425,688
—, cryolite, artificial, made with, 1,464,990; 1,464,991; 1,511,560
—, cyanamide, nitric acid made with, 1,370,867
—, cyanamide solvent, 1,352,177; 1,352,179
—, cyanide made with, 1,256,272
—, cyanogen made with, 1,144,457
—, cyanogen compound removal from spent oxide for, 1,467,193
—, cyanogen removed from, 1,306,862
—, deflocculating material made with, 1,345,305
—, derivatives of, phenol aldehyde condensate made with, 1,187,230; 1,187,232
—, —, varnish made with, 1,436,820
—, detection of, apparatus for, 1,321,062
—, —, asbestos for, 1,321,062
—, —, charcoal for, 1,321,062
—, —, glass wood for, 1,321,062
—, —, "hoolamite" for, 1,321,062
—, —, iodine oxide for, 1,321,062
—, —, iodine pentoxide for, 1,321,062
—, —, process for, 1,321,062
—, —, pumice for, 1,321,062
—, —, sulfuric acid, fuming for, 1,321,062
—, —, sulfur oxide for, 1,321,062
—, —, sulfur trioxide for, 1,321,062
—, dextrin, waterproofing of using, 1,499,025
—, diacetone amine made with, 1,473,285
—, dialkylamino alkyl compounds prepared with, 1,429,922
—, diaminoacridine made with, 1,410,494
—, dibutyl dixanthate, action of and, 1,491,021
—, 4.5-dichlor-2-nitro-aniline made with, 1,423,494
—, dihydroxycodeinone made with, 1,468,805
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—, 2.4-dinitro-aniline made with, 1,423,494
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—, 1-*o*-dioxyphenylethanolmethylamine prepared with, 1,423,101
—, dissolving, composition for, 1,345,144
—, distillate fuel oil, solidified, made with, 1,484,190
—, dope made with, 1,501,206
—, drying, calcium oxide for, 1,386,760
—, dyeing skins with chloro-*p*-phenylenediamine and, 1,434,449

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—, emulsifying agent, 1,431,079
—, enamel made with, 1,137,374
—, ergot alkaloid liberated by, 1,394,233
—, ethers, soldified, made with, 1,484,190
—, ethyl amine made with, 1,471,213
—, *N*-ethyl-*o*-toluenesulfonamide made with, 1,353,385
—, *N*-ethyl-*p*-toluenesulfonamide made with, 1,353,385
—, ethyl tropinone-carboxylate made with, 1,420,900
—, *N*-ethyl-xylenesulfonamide made with, 1,353,384; 1,353,385
—, evaporating from solutions, apparatus for, 1,352,210
—, evolution of in distilling beet sugar molasses, 1,343,224
—, extraction from gases, 1,413,763
—, fabric, waterproofiing of using, 1,499,025
—, fat made with, 1,209,723
—, ferriferrocyanide in mfr. of, 1,452,027
—, ferrocyanide as catalyst in synthesis of, 1,363,392; 1,363,393
—, ferropotassium ferrocyanide in mfr. of, 1,452,027
—, fertilizer made with, 1,127,840; 1,145,107; 1,146,222; 1,161,473; 1,184,839; 1,191,615; 1,194,077; 1,221,979; 1,277,155; 1,280,650; 1,285,121; 1,490,774; 1,496,410; 1,514,912
—, filament made with, 1,180,902
—, filament, artificial, made with, 1,173,336
—, film made with, 1,172,336; 1,501,206
—, film, photographic, made with, 1,493,000
—, finish remover made with, 1,140,449; 1,147,852
—, fire extinguisher made with, 1,199,087; 1,199,088; 1,199,089; 1,199,090
—, fireproofing-solution with, 1,382,618
—, fish oil, hydrogenation of, catalyst for, made with, 1,159,480
—, fixation of, coal for, 1,420,754
—, flax, waterproofing of using, 1,499,025
—, flour bleached by ammonia and, 1,330,937
—, fog produced from hydrochloric acid and, 1,338,343
—, fog produced from sulfur dioxide and, 1,338,343
—, fog produced from tin(ic) chloride and, 1,338,343
—, fog produced from titanium chloride and, 1,338,343
—, fog screen produced with sulfur chloride, steam and, 1,358,084
—, *formaldehyde compound of, see Hexamethylenetetramine*
—, formation from ammonium fluoride, 1,426,890; 1,426,891
—, formation from ammonium sulfide, 1,444,623
—, formation from boron nitride, 1,464,292
—, formation from calcium cyanamide, 1,399,660; 1,454,591
—, formation from cyanamides, 1,352,178; 1,419,157; 1,436,180
—, formation from cyanides, 1,355,642; 1,466,624; 1,466,628
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—, formation from nitric acid, 1,418,618
—, formation from nitrogen, 1,408,754
—, formation from titanium cyanonitride, 1,408,661
—, formation from titanium nitride, 1,408,661
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—, formation in coke ovens, 1,422,706
—, formation in dicyandiamide mfr., 1,423,799
—, formation in diphenylamine mfr., 1,392,942; 1,422,494
—, formation in electric battery, 1,356,977
—, formation in guanidine mfr., 1,417,369
—, formation in oil shale distillation, 1,423,716
—, formation of, 1,348,933; 1,422,496
—, —, aniline for, 1,314,538
—, —, cyanides for, 1,417,702
—, —, hydrocyanic acid for, 1,235,901
—, —, sugar waste for, 1,342,737
—, —, tetraiodo-hexamethylenetetramine for, 1,255,335
—, formation with carbon monoxide and nitrogen, 1,408,754
—, fuel, gaseous, removal from of, apparatus for, 1,237,767
—, —, —, —, glycerol for, 1,237,767
—, —, —, —, process for, 1,237,767
—, —, solidified, made with, 1,484,190
—, fuel oil, solidified, made with, 1,484,190
—, fur cleaned with sawdust and, 1,294,459
—, garbage for producing, 1,354,733
—, gas, carbon oxysulfide, removal of from, using, 1,504,624
—, —, removal from of, apparatus for, 1,213,796
—, —, —, castor oil, sulfonated, for, 1,213,796
—, —, —, process for, 1,213,796
—, gas constituent, 1,412,954
—, gas contg., aluminum oxide made with, 1,162,130
—, —, ammonium phosphate, ($NH_4H_2PO_4$), made with, 1,208,877
—, —, ammonium salts made with, 1,162,130
—, gaseous, viscose made with, 1,418,135
—, gas mantles made with, 1,436,359
—, gas mantles "de-nitrated" with, 1,436,359
—, gas oil, solidified, made with, 1,484,190
—, gasolene made with, 1,221,698
—, gasolene, solidified, made with, 1,484,190
—, gasolene purified with, 1,365,894
—, gas tar, solidified, made with, 1,484,190
—, gas treated with, 1,430,920
—, gear made with, 1,370,666
—, gelatin hydrolyzed with, 1,323,951
—, generating, sectional apparatus for, 1,367,718
—, gloves, sealed package of made sterile using, 1,180,894
—, glucose, compounds of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970

Ammonia, glucose, compounds of and, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of, using, 1,417,970
—, *glucose condensate of, see Glucose ammonia*
—, glue hydrolyzed with, 1,323,951
—, guanidine made with, 1,417,369
—, gum, artificial, made with, 1,225,748; 1,225,749; 1,225,750
—, gum dissolved by, 1,431,080
—, gum in straw dissolved by, 1,374,941
—, hair treated with hydrogen peroxide and, 1,331,609
—, helium, air, separation of from using, 1,496,757
—, —, natural gas, separation of from using, 1,496,757
—, hemp, waterproofing of using, 1,499,025
—, hexamethylenetetramine made with, 1,132,709; 1,408,826; 1,459,971
—, hexamethylenetetramine periodide made with, 1,226,394
—, horn substitute made with, 1,395,834
—, hosiery, sealed package of made sterile using, 1,180,894
—, hydrocarbon, solidified, made with, 1,484,190
—, hydrocarbon as impurity in, removal of, 1,318,936
—, hydrocellulose, waterproofing of using, 1,499,025
—, hydrocyanic acid made with, 1,144,457; 1,352,176; 1,387,170; 1,492,193; 1,492,194
—, hydrocyanic acid, catalyst for the mfr. of, made with, 1,492,194
—, hydrocyanic acid decomposition product, 1,337,538
—, hydrocyanic acid made from hydrocarbon gas and, 1,387,170
—, hydrocyanic acid removed from gases with, 1,413,762
—, hydrogen, air, separation of from using, 1,496,757
—, —, carbon oxysulfide, removal of from, using, 1,504,624
—, —, nitrogen, mixture of and, made with, 1,123,394
—, —, —, separation from using, 1,496,757
—, —, separation of from, 1,261,900; 1,518,421
—, —, water gas, separation of from using, 1,496,757
—, hydrogen silicide in cyanamide, 1,370,867
—, hydrogen substitute made with, 1,210,367
—, hydrogenation, catalyst for, made with, 1,159,480; 1,210,367
—, hydrolytic agent in mfr. of guanidine, 1,417,369
—, hyposulfite, anhydrous, made with, 1,156,107
—, illuminating gas, removal from of, apparatus of, 1,150,837; 1,213,796
—, —, —, castor oil, sulfonated for, 1,213,796
—, —, —, process for, 1,213,796
—, indoxyl, mfr. of, use of, 1,293,680
—, infra red ray absorption constant of, 1,519,555
—, insulation, electric, made with, 1,156,452; 1,159,257; 1,245,980; 1,245,981; 1,370,666; 1,397,144; 1,474,482; 1,508,124
Ammonia, iron catalyst prepared with, 1,426,517
—, iron cyanide in mfr. of, 1,452,027
—, iron molybdate reduced by, 1,386,555
—, jute, waterproofing of using, 1,499,025
—, kaolin, deflocculated, made with, 1,419,951
—, kerosene, solidified, made with, 1,484,190
—, ketone-aldehyde condensate made with, 1,482,929
—, lacquer made with, 1,137,374; 1,187,231; 1,218,146; 1,245,981; 1,245,982; 1,354,154
—, lamp, electric, incandescent, made with, 1,234,691
—, latex prevented from coagulating with, 1,423,525; 1,423,526
—, lead alloy, alkali metal in, treatment of using, 1,197,329
—, —, potassium in, treatment of using, 1,197,329
—, —, sodium in, treatment of using, 1,197,329
—, leather, artificial, made with, 1,173,336; 1,180,902
—, —, patent, drying of using, 1,137,671
—, lignite briquette made with, 1,452,992
—, lignoprotein solvent, 1,464,949
—, lime mud made with, 1,249,739
—, linen, waterproofing of using, 1,499,025
—, liquefied, ammonia-soda process conducted with, 1,423,510
—, liquid, alkali carbonate, solubility of in, 1,314,231
—, —, alkali hydroxide, solubility of in, 1,314,231
—, —, alkali metal solvent, 1,270,842
—, —, ammonium chloride made with, 1,499,001; 1,499,002
—, —, apparatus for using, 1,478,479
—, —, calcium solvent, 1,270,842
—, —, carbon dioxide, removal from of using, 1,478,889
—, —, carbon monoxide, removal from of using, 1,478,889
—, —, cellulose nitrate solvent, 1,439,293
—, —, cyanamide solvent, 1,314,236; 1,314,237; 1,329,652
—, —, cyanates dissolved by, 1,329,652
—, —, cyanide solvent, 1,314,236; 1,314,237
—, —, extraction with, apparatus for, 1,314,236; 1,314,237
—, —, gas purification for mfr. of, ammonia using, 1,478,889
—, —, hexamethylenetetramine made with, 1,499,001; 1,499,002
—, —, mfr. of, apparatus for, 1,322,251
—, —, —, process for, 1,322,251
—, —, miscibility of with mineral oils, 1,423,710; 1,423,711; 1,423,712
—, —, oils desulfurized with, 1,454,593
—, —, oils refrigerated with, 1,427,100
—, —, oxygen, gas, removal from of using, 1,478,889
—, —, potassium chloride dissolved by, 1,328,938
—, —, power producing mixture contg., 1,417,047
—, —, sodamide made with, 1,270,842
—, —, sodium chloride dissolved by, 1,328,938
—, —, sodium cyanide solvent, 1,314,231; 1,314,236; 1,314,237; 1,329,652
—, —, sodium solvent, 1,270,842
—, —, solvent properties of, 1,329,652

Ammonia, liquid, sulfur removed from oils by, 1,454,593
—, —, tungsten made with, 1,270,842
—, —, water, gas, removal from of using, 1,478,889
—, liquefaction of, apparatus for, 1,259,810
—, —, process for, 1,259,810
—, loss in mfr. of fertilizer, 1,293,029
—, lutidine made with, 1,274,998; 1,274,999
—, magnesium-ammonium phosphate precipitated by, 1,346,148
—, magnesium carbonitride ($Mg_3C_2N_6$), made with, 1,134,412
—, magnesium cyanamide made with, 1,473,543; 1,473,544
—, manganese, steel alloy contg., hardening of, using, 1,487,554
—, mfr. of, 1,322,026; 1,352,180; 1,352,181; 1,352,182; 1,386,760; 1,435,928; 1,466,624; 1,466,625; 1,466,626; 1,466,628
—, —, acetic acid for, 1,206,155
—, —, acetylene for, 1,483,414
—, —, acetylene formed during, 1,154,640
—, —, air for, 1,138,191; 1,163,095; 1,172,863; 1,189,638; 1,206,155; 1,241,919; 1,241,920; 1,256,272; 1,256,273; 1,390,200; 1,494,735; 1,503,319; 1,504,730; 1,516,720
—, —, air, liquid, for, 1,490,627
—, —, alkali acetate for, 1,138,191; 1,417,702; 1,473,543
—, —, alkali aluminate for, 1,159,989; 1,415,280
—, —, alkali bicarbonate for, 1,138,191; 1,483,413
—, —, alkali borate for, 1,415,280
—, —, alkali carbonate for, 1,138,191; 1,149,653; 1,206,155; 1,415,280; 1,417,702; 1,483,413; 1,483,414
—, —, alkali carbonitride for, 1,134,411
—, —, alkali compound for, 1,138,191
—, —, alkali cyanamide for, 1,310,480
—, —, alkali cyanamide, catalyst contg., for, 1,473,543; 1,473,544
—, —, alkali cyanamide as catalyst for, 1,473,543; 1,483,411
—, —, alkali cyanide for, 1,138,191; 1,417,702; 1,483,414
—, —, alkali cyanide, catalyst contg., for, 1,473,543; 1,473,544
—, —, alkali cyanide as catalyst for, 1,473,543; 1,483,411
—, —, alkali cyanide as catalyst promoter for, 1,476,283
—, —, alkali earth acetate for, 1,473,543
—, —, alkali earth aluminate for, 1,159,989
—, —, alkali earth carbide for, 1,517,870
—, —, alkali earth carbonate for, 1,483,414
—, —, alkali earth carbonitride for, 1,134,411
—, —, alkali earth compound for, 1,206,155
—, —, alkali earth cyanamide for, 1,483,411
—, —, alkali earth cyanamide, catalyst contg., for, 1,473,543; 1,473,544
—, —, alkali earth cyanamide as catalyst for, 1,473,543
—, —, alkali earth cyanide for, 1,483,414
—, —, alkali earth cyanide, catalyst contg., for, 1,473,543; 1,473,544
—, —, alkali earth cyanide as catalyst for, 1,473,543; 1,483,411
Ammonia, mfr. of, alkali earth cyanide as catalyst promoter for, 1,476,283
—, —, alkali earth ferricyanide as catalyst for, 1,473,543
—, —, alkali earth ferrocyanide as catalyst for, 1,473,543
—, —, alkali earth formate for, 1,473,543
—, —, alkali earth hydroxide for, 1,483,414
—, —, alkali earth hydroxide as catalyst promoter for, 1,476,283
—, —, alkali earth metal as catalyst promoter for, 1,313,316
—, —, alkali earth oxalate for, 1,473,543
—, —, alkali earth oxide for, 1,134,411; 1,261,526; 1,483,414
—, —, alkali earth oxide as catalyst promoter for, 1,476,283
—, —, alkali earth phenolate for, 1,473,543
—, —, alkali earth salt for, 1,415,280; 1,487,521
—, —, alkali earth salts as catalyst promoter for, 1,476,283
—, —, alkali earth tartrate for, 1,473,543
—, —, alkali ferricyanide as, catalyst for, 1,473,543
—, —, alkali ferrocyanide as catalyst for, 1,473,543
—, —, alkali formate for, 1,417,702; 1,473,543
—, —, alkali hydroxide for, 1,138,191; 1,149,653; 1,156,606; 1,415,280; 1,417,702; 1,483,414
—, —, alkali hydroxide as catalyst promoter for, 1,476,283
—, —, alkali metal for, 1,138,191; 1,180,840; 1,206,155
—, —, alkali metal as catalyst promoter for, 1,313,316
—, —, alkali molybdate for, 1,415,280
—, —, alkali oxalate for, 1,138,191; 1,417,702; 1,473,543
—, —, alkali oxide for, 1,129,510; 1,134,411; 1,206,155; 1,415,280; 1,417,702; 1,483,414
—, —, alkali oxide as catalyst promoter for, 1,476,283
—, —, alkali phenolate for, 1,473,543
—, —, alkali salt for, 1,149,653; 1,163,095; 1,415,280; 1,487,521
—, —, alkali salt as catalyst promoter for, 1,476,283
—, —, alkali silicate for, 1,415,280
—, —, alkali sulfide for, 1,156,606
—, —, alkali tartrate for, 1,473,543
—, —, alkali titanate for, 1,415,280
—, —, alkali vanadate for, 1,415,280
—, —, alkali zirconate for, 1,415,280
—, —, alloy for, 1,256,875
—, —, alumina for, 1,158,899; 1,180,840; 1,198,965
—, —, aluminum for, 1,198,965; 1,206,155; 1,229,611; 1,328,082
—, —, aluminum as catalyst for, 1,256,273
—, —, aluminum as catalyst promoter for, 1,148,570; 1,152,930
—, —, aluminum alloy for, 1,229,611
—, —, aluminum carbonate for, 1,229,611
—, —, aluminum carbonitride, $Al_2C_2.C_2N_4$, for, 1,154,801
—, —, —, $Al_2C_3N_6$, for, 1,129,224; 1,129,505; 1,129,506; 1,129,514; 1,129,721; 1,134,413

Ammonia, mfr. of, aluminum carbide for, 1,198,965; 1,229,611
—, —, aluminum compound for, 1,129,506; 1,172,863
—, —, aluminum dross for, 1,156,606
—, —, aluminum fluoride for, 1,198,965
—, —, aluminum hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, aluminum nitride for, 1,158,899; 1,159,989; 1,188,770; 1,198,965; 1,229,611; 1,252,649; 1,261,526; 1,502,129
—, —, aluminum nitride, (AlN), for, 1,180,840
—, —, —, (Al_2N_2), for, 1,129,505; 1,129,721
—, —, aluminum ore for, 1,198,965
—, —, aluminum oxide for, 1,129,509; 1,154,801; 1,158,899; 1,172,863; 1,198,965; 1,229,611; 1,415,280
—, —, aluminum oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, aluminum phosphate for, 1,134,414
—, —, aluminum phosphate, ($AlPO_4$), for, 1,129,514
—, —, aluminum salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, aluminum scrap for, 1,502,129
—, —, aluminum screenings for, 1,156,606
—, —, aluminum silicates for, 1,129,224; 1,129,505; 1,129,721
—, —, aluminum silicon nitride and hydrogen for, 1,379,668
—, —, aluminum skimmings for, 1,156,606; 1,229,611
—, —, aluminum slags for, 1,156,606
—, —, aluminum sulfate for, 1,198,965
—, —, ammonia for, 1,473,543; 1,473,544
—, —, ammoniacal liquors for, 1,324,979
—, —, ammonium chloride for, 1,209,258; 1,310,306; 1,473,966; 1,499,002
—, —, ammonium hydroxide for, 1,208,242
—, —, ammonium nitrate for, 1,319,663
—, —, ammonium phosphate for, 1,252,318
—, —, ammonium sulfate for, 1,204,843; 1,310,306; 1,366,303
—, —, animal matter for, 1,330,435
—, —, antimony as catalyst poison for, 1,148,570; 1,152,930
—, —, antimony, catalyst contg., for, 1,495,655
—, —, antimony compound as catalyst poison for, 1,148,570; 1,152,930
—, —, apparatus for, 1,123,763; 1,125,208; 1,129,507; 1,129,508; 1,129,509; 1,129,510; 1,129,511; 1,130,001; 1,137,524; 1,138,191; 1,146,776; 1,156,606; 1,158,899; 1,165,358; 1,165,368; 1,177,727; 1,180,840; 1,183,885; 1,186,921; 1,187,633; 1,188,530; 1,189,638; 1,198,987; 1,202,995; 1,204,789; 1,206,155; 1,207,416; 1,207,567; 1,208,242; 1,209,258; 1,210,598; 1,221,505; 1,242,264; 1,244,903; 1,252,726; 1,256,875; 1,266,147; 1,291,660; 1,295,262; 1,313,314; 1,313,315; 1,313,316; 1,313,884; 1,313,885; 1,313,886; 1,315,532; 1,324,979; 1,329,397; 1,330,435; 1,334,590; 1,466,624; 1,466,626; 1,466,628; 1,478,549; 1,478,550; 1,488,055; 1,489,724; 1,494,735; 1,495,461; 1,495,563; 1,498,031; 1,501,436; 1,504,730; 1,507,560; 1,518,421
—, —, arsenic, catalyst contg., for, 1,495,655
Ammonia, mfr. of, arsenic as catalyst poison for, 1,148,570; 1,152,930
—, —, arsenic compound as catalyst poison for, 1,148,570; 1,152,930
—, —, asphalt for, 1,229,611
—, —, asbestos, iron impregnated, for, 1,148,570 1,152,930
—, —, asbestos as catalyst carrier for, 1,256,875
—, —, barium, catalyst contg., for, 1,495,655
—, —, barium as catalyst for, 1,128,843
—, —, barium as catalyst promoter for, 1,148,570; 1,152,930
—, —, barium acetate for, 1,473,543
—, —, barium aluminate for, 1,206,155
—, —, barium carbide for, 1,123,763; 1,207,567; 1,483,414; 1,517,870
—, —, barium carbide as catalyst for, 1,128,843
—, —, barium carbonate for, 1,209,258; 1,237,485; 1,473,543; 1,483,413; 1,501,840
—, —, barium cyanamide for, 1,159,989
—, —, barium cyanamide as catalyst for, 1,352,177; 1,352,179; 1,473,543
—, —, barium cyanide for, 1,123,763; 1,159,989; 1,237,485; 1,501,840
—, —, barium ferricyanide as catalyst for, 1,454,599
—, —, barium ferrocyanide as catalyst for, 1,454,599
—, —, barium ferrocyanide as catalyzer in, 1,452,027
—, —, barium formate for, 1,473,543
—, —, barium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, barium nitride as catalyst for, 1,128,843
—, —, barium oxalate for, 1,473,543
—, —, barium oxide for, 1,123,763; 1,206,155
—, —, barium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, barium oxide, catalyst contg., for, 1,306,862
—, —, barium phenolate for, 1,473,543
—, —, barium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, barium silicate (Ba_2SiO_4), for, 1,501,840
—, —, barium tartrate for, 1,473,543
—, —, bark for, 1,202,317
—, —, bauxite for, 1,158,899; 1,159,989; 1,180,840
—, —, bauxite, red, for, 1,158,899
—, —, benzine for, 1,251,954
—, —, beryllium as catalyst promoter for, 1,148,570; 1,152,930
—, —, beryllium acetate for, 1,473,543
—, —, beryllium carbonate for, 1,473,543; 1,473,544
—, —, beryllium cyanamide, catalyst contg., for, 1,473,543; 1,473,544
—, —, beryllium formate for, 1,473,543
—, —, beryllium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, beryllium oxalate for, 1,473,543
—, —, beryllium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, beryllium phenolate for, 1,473,543
—, —, beryllium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, beryllium tartrate for, 1,473,543

Ammonia, mfr. of, bicarbonate for, 1,483,413
—, —, bismuth, catalyst cont., for, 1,495,655
—, —, bismuth as catalyst poison for, 1,148,570; 1,152,930
—, —, bismuth compound as catalyst poison for, 1,148,570; 1,152,930
—, —, bitumen, shale contg., for, 1,494,735
—, —, blast furnace gas for, 1,466,624; 1,466,625; 1,466,626; 1,466,628
—, —, blood for, 1,504,730
—, —, bone for, 1,504,730
—, —, borax for, 1,255,593
—, —, boric acid for, 1,221,505
—, —, boron for, 1,206,155
—, —, boron as catalyst poison for, 1,148,570; 1,152,930
—, —, boron compound as catalyst poison for, 1,148,570; 1,152,930
—, —, boron nitride for, 1,464,292
—, —, boron oxide, B_2O, for, 1,129,508
—, —, boron trioxide for, 1,464,292
—, —, brass for, 1,256,875
—, —, cadmium in catalyst for, 1,495,655
—, —, calcium as catalyst promoter for, 1,148,570; 1,152,930
—, —, calcium acetate for, 1,473,543
—, —, calcium carbamide for, 1,159,989
—, —, calcium carbide for, 1,207,567; 1,315,532; 1,315,534; 1,483,414; 1,517,870
—, —, calcium carbonate for, 1,473,543; 1,483,413
—, —, calcium carbonitride ($Ca_3C_2N_6$), for, 1,129,511; 1,134,411
—, —, calcium chloride for, 1,255,593; 1,319,663; 1,502,129
—, —, calcium compound for, 1,172,863
—, —, calcium cyanamide for, 1,142,068; 1,149,653; 1,151,074; 1,151,633; 1,154,640; 1,163,095; 1,167,788; 1,183,885; 1,221,058; 1,242,953; 1,292,814; 1,296,820; 1,313,884; 1,313,885; 1,313,886; 1,326,045; 1,365,739; 1,397,609; 1,463,508; 1,498,031
—, —, calcium cyanamide, catalyst contg., for, 1,352,174; 1,352,180; 1,352,181; 1,352,182
—, —, calcium cyanamide as catalyst for, 1,352,177; 1,352,179; 1,473,543
—, —, calcium ferricyanide as catalyst for, 1,454,599
—, —, calcium ferrocyanide, catalyst contg., for, 1,306,862
—, —, calcium ferrocyanide as catalyst for, 1,454,599
—, —, calcium fluoride as catalyst for, 1,315,534
—, —, calcium formate for, 1,473,543
—, —, calcium hydride for, 1,251,954
—, —, calcium hydrogen nitride ($Ca_3N_2.N_2H_6$), for, 1,147,184
—, —, calcium hydroxide for, 1,123,584; 1,149,653; 1,202,317; 1,210,598; 1,266,147; 1,324,979; 1,466,624; 1,466,628
—, —, calcium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, calcium oxalate for, 1,473,543
—, —, calcium oxide for, 1,129,511; 1,134,411; 1,137,524; 1,147,184; 1,165,368; 1,202,317; 1,204,843; 1,206,155; 1,206,156; 1,261,526; 1,266,147; 1,315,534
Ammonia, mfr. of, calcium oxide, catalyst contg., for, 1,306,862
—, —, calcium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, calcium phenolate for, 1,473,543
—, —, calcium phosphate ($Ca_3P_2O_8$), for, 1,129,504; 1,129,514; 1,129,722
—, —, calcium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, calcium tartrate for, 1,473,543
—, —, cannel shale for, 1,488,055
—, —, carbide for, 1,207,567; 1,315,532; 1,315,534; 1,517,870
—, —, carbon for, 1,123,584; 1,129,224; 1,129,504; 1,129,505; 1,129,506; 1,129,507; 1,129,508; 1,129,509; 1,129,510; 1,129,511; 1,129,514; 1,129,721; 1,129,722; 1,134,411; 1,134,412; 1,134,413; 1,134,414; 1,137,524; 1,138,191; 1,147,184; 1,154,801; 1,158,899; 1,180,840; 1,186,921; 1,187,633; 1,198,965; 1,206,155; 1,237,485; 1,241,919; 1,241,920; 1,256,273; 1,273,772; 1,313,312; 1,315,534; 1,466,624; 1,466,628; 1,483,413; 1,501,840
—, —, carbon compounds as catalyst poison for, 1,148,570; 1,152,930
—, —, carbon dioxide for, 1,490,728
—, —, carbon dioxide, effect of on, 1,184,839
—, —, carbon dioxide as catalyst poison for, 1,148,570; 1,152,930
—, —, carbon monoxide for, 1,129,504; 1,129,722; 1,138,191; 1,148,570; 1,152,930; 1,158,899; 1,206,155; 1,242,264; 1,390,200
—, —, carbon monoxide, steam and nitrogen for, 1,408,754
—, —, carbon monoxide as catalyst poison for, 1,148,570; 1,152,930; 1,312,534
—, —, carbo-nitride for, 1,310,479
—, —, carbonate for, 1,206,155; 1,313,312; 1,483,413
—, —, catalyst for, 1,141,947; 1,141,948; 1,143,366; 1,151,537; 1,159,364; 1,159,365; 1,243,382; 1,299,641; 1,312,534; 1,313,314; 1,313,315; 1,313,316; 1,352,174; 1,352,175; 1,352,176; 1,352,177; 1,352,178; 1,352,179; 1,352,180; 1,352,181; 1,352,182; 1,473,543; 1,473,544
—, —, —, ammonia made with, 1,151,537
—, —, —, mfr. of, acetic acid for, 1,206,155
—, —, —, —, acetylene for, 1,352,178
—, —, —, —, air for, 1,152,930; 1,206,155; 1,491,588
—, —, —, —, alkali for, 1,201,226
—, —, —, —, alkali carbide for, 1,352,178
—, —, —, —, alkali carbonate for, 1,157,253; 1,206,155; 1,483,412
—, —, —, —, alkali cyanamide for, 1,352,178
—, —, —, —, alkali earth carbide for, 1,352,178
—, —, —, —, alkali earth carbonate for, 1,157,253; 1,483,412
—, —, —, —, alkali earth compound for, 1,206,155
—, —, —, —, alkali earth cyanamide for, 1,352,178
—, —, —, —, alkali earth hydroxide for, 1,483,412
—, —, —, —, alkali earth metal for, 1,491,588
—, —, —, —, alkali earth nitride for, 1,491,588

Ammonia, mfr. of, catalyst for, mfr. of, alkali earth oxide for, 1,157,253; 1,491,588; 1,502,336
—, —, —, —, alkali hydroxide for, 1,483,412
—, —, —, —, alkali metal for, 1,141,948; 1,159,364; 1,159,365
—, —, —, —, alkali oxide for, 1,157,253; 1,206,155; 1,502,336
—, —, —, —, alkali ruthenate for, 1,173,532
—, —, —, —, alumina for, 1,173,532
—, —, —, —, aluminum for, 1,148,570; 1,206,155; 1,491,588; 1,502,336
—, —, —, —, aluminum nitrate for, 1,148,570; 1,152,930
—, —, —, —, aluminum oxide for, 1,148,570; 1,152,930; 1,489,497; 1,491,588; 1,502,336; 1,510,598
—, —, —, —, ammonia for, 1,141,947; 1,141,948; 1,143,366; 1,148,570; 1,151,537; 1,159,364; 1,159,365; 1,225,755; 1,352,177; 1,352,178; 1,352,179; 1,439,291; 1,439,292; 1,483,412
—, —, —, —, ammonium hydroxide for, 1,148,570; 1,152,930; 1,386,555
—, —, —, —, ammonium molybdate for, 1,148,570; 1,152,930; 1,386,555
—, —, —, —, ammonium tungstate for, 1,148,570; 1,152,930; 1,175,693
—, —, —, —, ammonium vanadate for, 1,152,930
—, —, —, —, asbestos for, 1,148,570; 1,152,930; 1,173,532; 1,363,392; 1,363,393; 1,386,555
—, —, —, —, barium for, 1,491,588
—, —, —, —, barium aluminate for, 1,206,155
—, —, —, —, barium carbide for, 1,352,178
—, —, —, —, barium carbonate for, 1,483,412
—, —, —, —, barium cyanamide for, 1,352,178
—, —, —, —, barium ferricyanide for, 1,363,392; 1,363,393
—, —, —, —, barium ferrocyanide for, 1,363,392; 1,363,393; 1,439,291; 1,439,292
—, —, —, —, barium hydroxide for, 1,483,412
—, —, —, —, barium manganese cyanide, $(Ba_3Mn(CN)_6)_2$ for, 1,439,291; 1,439,292
—, —, —, —, barium nitride for, 1,491,588
—, —, —, —, barium oxide for, 1,206,155; 1,489,497; 1,491,588
—, —, —, —, bauxite for, 1,502,336
—, —, —, —, beryllium for, 1,491,588
—, —, —, —, beryllium nitrate for, 1,148,570; 1,152,930
—, —, —, —, beryllium nitride for, 1,491,588
—, —, —, —, beryllium oxide for, 1,148,570; 1,152,930; 1,491,588
—, —, —, —, boron for, 1,141,948; 1,159,365
—, —, —, —, calcium for, 1,352,177; 1,352,178; 1,352,179; 1,491,588; 1,502,336
—, —, —, —, calcium carbide for, 1,352,178
—, —, —, —, calcium cyanamide for, 1,352,178
—, —, —, —, calcium cyanide for, 1,352,177; 1,352,178; 1,352,179
—, —, —, —, calcium ferricyanide for, 1,363,392; 1,363,393
—, —, —, —, calcium ferrocyanide for, 1,363,392; 1,363,393; 1,439,291; 1,439,292
—, —, —, —, calcium nitride for, 1,491,588
—, —, —, —, calcium oxide for, 1,206,155; 1,206,156; 1,489,497; 1,491,588; 1,502,336
Ammonia, mfr. of, catalyst for, mfr. of, carbon for, 1,173,532; 1,206,155; 1,483,412; 1,502,336
—, —, —, —, carbon, activated, for, 1,483,412
—, —, —, —, carbonate for, 1,206,155
—, —, —, —, cement for, 1,173,532
—, —, —, —, cerium for, 1,141,948; 1,159,365; 1,167,280; 1,184,839; 1,491,588
—, —, —, —, cerium chloride for, 1,141,948; 1,159,365
—, —, —, —, cerium nitride for, 1,491,588
—, —, —, —, cerium oxide for, 1,167,280; 1,184,839; 1,489,497; 1,491,588
—, —, —, —, cesium oxide for, 1,510,598
—, —, —, —, chamotte for, 1,148,570
—, —, —, —, charcoal for, 1,167,280; 1,184,839; 1,483,412
—, —, —, —, charcoal, cocoanut, for, 1,167,280; 1,184,839
—, —, —, —, chloride for, 1,206,155
—, —, —, —, chromium for, 1,206,155; 1,483,412
—, —, —, —, clay for, 1,148,570; 1,152,930; 1,173,532
—, —, —, —, coal for, 1,502,336
—, —, —, —, cobalt chloride for, 1,141,948; 1,206,155; 1,206,156; 1,352,178; 1,483,412; 1,489,497; 1,510,598
—, —, —, —, cobalt calcium iron cyanide, $CaCoFe(CN)_6$, for, 1,439,291; 1,439,292
—, —, —, —, —, cobalt chloride for, 1,141,948; 1,159,365
—, —, —, —, cobalt nitrate for, 1,141,948; 1,159,365
—, —, —, —, cobalt oxide for, 1,244,580
—, —, —, —, columbium for, 1,352,178
—, —, —, —, copper cyanamide for, 1,352,177; 1,352,179
—, —, —, —, *Crocus martis* for, 1,148,570; 1,152,930
—, —, —, —, didymium for, 1,167,280; 1,184,839
—, —, —, —, dolomite for, 1,502,336
—, —, —, —, ferromanganese for, 1,502,336
—, —, —, —, ferro-molybdenum for, 1,502,336
—, —, —, —, ferro-silicon for, 1,502,336
—, —, —, —, ferro-titanium for, 1,502,336
—, —, —, —, hematite, arsenic free, for, 1,148,570; 1,152,930
—, —, —, —, —, sulfur free, for, 1,148,570; 1,152,930
—, —, —, —, hydrochloric acid for, 1,141,947; 1,141,948; 1,143,366; 1,151,537; 1,159,364; 1,159,365; 1,167,280; 1,184,839
—, —, —, —, hydrogen for, 1,141,947; 1,141,948; 1,143,366; 1,148,570; 1,151,537; 1,152,930; 1,157,253; 1,158,167; 1,159,364; 1,359,365; 1,173,532; 1,175,693; 1,201,226; 1,225,755; 1,244,580; 1,363,392; 1,363,393; 1,386,555; 1,439,291; 1,439,292; 1,483,412; 1,489,497; 1,502,336
—, —, —, —, hydroxide for, 1,148,570; 1,152,930;
—, —, —, —, iridium for, 1,157,253
—, —, —, —, iridium chloride for, 1,157,253
—, —, —, —, iron for, 1,141,947; 1,141,948; 1,143,366; 1,148,570; 1,152,930; 1,159,365; 1,206,155; 1,206,156; 1,225,755; 1,352,178; 1,483,412; 1,489,497; 1,502,336; 1,510,598
—, —, —, —, iron, pure, for, 1,148,570; 1,152,930

Ammonia, mfr. of, catalyst for, mfr. of, iron acetate for, 1,206,155
—, —, —, —, iron carbonate for, 1,483,412
—, —, —, —, iron chloride for, 1,141,948; 1,159,365
—, —, —, —, iron hydroxide for, 1,148,570; 1,152,930; 1,489,497
—, —, —, —, iron nitrate for, 1,141,948; 1,148,570; 1,152,930; 1,159,365; 1,225,755
—, —, —, —, iron(ic) nitrate for, 1,141,947; 1,143,366; 1,386,555
—, —, —, —, iron nitride for, 1,148,570; 1,152,930; 1,225,755; 1,352,178
—, —, —, —, iron oxide for, 1,148,570; 1,152,930; 1,158,167; 1,206,155; 1,225,755; 1,244,580; 1,483,412; 1,489,497; 1,502,336; 1,510,598
—, —, —, —, iron oxide, (ferroso-ferric), for, 1,158,167
—, —, —, —, iron oxide (Fe_2O_3), for, 1,225,755
—, —, —, —, —, Fe_3O_4, for, 1,148,570; 1,152,930; 1,206,156; 1,225,755
—, —, —, —, iron(ic) oxide for, 1,148,570; 1,152,930; 1,158,167
—, —, —, —, iron oxide ore for, 1,502,336
—, —, —, —, iron salt for, 1,148,570; 1,152,930
—, —, —, —, kieselguhr for, 1,173,532
—, —, —, —, lanthanum for, 1,167,280; 1,184,839; 1,491,588
—, —, —, —, lanthanum nitride for, 1,491,588
—, —, —, —, lanthanum oxide for, 1,491,588
—, —, —, —, lime for, 1,148,570; 1,152,930; 1,386,555; 1,502,336
—, —, —, —, lithium for, 1,491,588
—, —, —, —, lithium nitride for, 1,491,588
—, —, —, —, lithium oxide for, 1,491,588
—, —, —, —, magnesia for, 1,148,570; 1,152,930; 1,173,532; 1,386,555
—, —, —, —, magnesium for, 1,148,570; 1,152,930; 1,491,588; 1,502,336
—, —, —, —, magnesium chloride for, 1,148,570; 1,152,930
—, —, —, —, magnesium nitrate for, 1,148,570; 1,152,930
—, —, —, —, magnesium oxide for, 1,148,570; 1,206,155; 1,206,156; 1,491,588; 1,502,336
—, —, —, —, magnetite for, 1,148,570; 1,152,930
—, —, —, —, magnetite, arsenic free, for, 1,148,570; 1,152,930
—, —, —, —, —, sulfur free, for, 1,148,570; 1,152,930
—, —, —, —, manganese for, 1,141,948; 1,159,365; 1,352,178; 1,483,412
—, —, —, —, manganese chloride for, 1,141,948; 1,159,365
—, —, —, —, manganese nitride for, 1,352,178
—, —, —, —, meerschaum for, 1,173,532
—, —, —, —, metal for, 1,173,532; 1,483,412; 1,489,497; 1,510,598
—, —, —, —, metal carbonate for, 1,483,412; 1,489,497; 1,510,598
—, —, —, —, metal compound for, 1,173,532; 1,489,497
—, —, —, —, metal hydroxide for, 1,148,570; 1,152,930; 1,489,497; 1,510,598
—, —, —, —, metal nitrate for, 1,489,497; 1,510,598
Ammonia, mfr. of, catalyst for, mfr. of, metal oxide for, 1,148,570; 1,152,930; 1,483,412; 1,489,497; 1,510,598
—, —, —, —, metal salt for, 1,148,570; 1,152,930
—, —, —, —, molybdenum for 1,141,947; 1,141,948; 1,143,366; 1,159,365; 1,491,588
—, —, —, —, molybdenum chloride for, 1,141,947; 1,143,366
—, —, —, —, molybdenum nitride for, 1,491,588
—, —, —, —, molybdenum oxide for, 1,148,570; 1,244,580; 1,491,588
—, —, —, —, nitrogen for, 1,141,947; 1,141,948; 1,143,366; 1,148,570; 1,152,930; 1,157,253; 1,158,167; 1,159,364; 1,159,365; 1,173,532; 1,175,693; 1,225,755; 1,363,392; 1,363,393; 1,386,555; 1,439,291; 1439,292; 1,483,412; 1,491,588
—, —, —, —, nickel for, 1,141,947; 1,141,948; 1,143,366; 1,159,365; 1,201,226; 1,206,155; 1,206,156; 1,489,497
—, —, —, —, nickel boride for, 1,201,226
—, —, —, —, nickel chloride for, 1,141,948; 1,159,365
—, —, —, —, nickel nitrate for, 1,141,947; 1,141,948; 1,143,366; 1,159,365
—, —, —, —, nickel salt for, 1,201,226
—, —, —, —, nitric acid for, 1,148,570; 1,152,930
—, —, —, —, orthoclase for, 1,489,497
—, —, —, —, osmium for, 1,157,253; 1,352,178
—, —, —, —, oxide for, 1,152,930
—, —, —, —, oxygen for, 1,148,570; 1,152,930; 1,489,497
—, —, —, —, platinum for, 1,489,497
—, —, —, —, potassium for, 1,141,947; 1,141,948; 1,143,366; 1,151,537; 1,159,364; 1,159,365; 1,206,156
—, —, —, —, potassium amide for, 1,141,948; 1,159,364; 1,159,365; 1,489,497
—, —, —, —, potassium boride for, 1,201,226
—, —, —, —, potassium carbide for, 1,352,178
—, —, —, —, potassium carbonate for, 1,148,570; 1,152,930; 1,206,155; 1,206,156; 1,483,412
—, —, —, —, potassium chromium cyanide, $K_3Cr(CN)_6$, for, 1,439,291; 1,439,292
—, —, —, —, —, $K_4Cr(CN)_6$, for, 1,439,291; 1,439,292
—, —, —, —, potassium cyanamide for, 1,352,178
—, —, —, —, potassium ferricyanide for, 1,439,291; 1,439,292
—, —, —, —, potassium hydroxide for, 1,148,570; 1,152,930; 1,173,532; 1,201,226; 1,483,412
—, —, —, —, potassium manganese cyanide, $K_3Mn(CN)_6$, for, 1,439,291; 1,439,292
—, —, —, —, —, $K_4Mn(CN)_6$, for, 1,439,291; 1,439,292
—, —, —, —, potassium nitrate for, 1,148,570; 1,152,930
—, —, —, —, potassium oxide for, 1,206,155; 1,489,497
—, —, —, —, potassium perchlorate for, 1,148,570; 1,152,930
—, —, —, —, potassium ruthenate for, 1,173,532
—, —, —, —, potassium silicate for, 1,489,497
—, —, —, —, potassium sulfate for, 1,206,155
—, —, —, —, process for, 1,141,947; 1,141,948; 1,143,366; 1,148,570; 1,151,537; 1,152,930; 1,157,253; 1,158,167; 1,159,364; 1,159,365;

Ammonia mfr. of, catalyst for, mfr. of, process for (Continued)
1,167,280; 1,173,532; 1,175,693; 1,184,839; 1,201,226; 1,206,155; 1,225,755; 1,244,580; 1,352,177; 1,352,178; 1,352,179; 1,363,392; 1,363,393; 1,386,555; 1,439,291; 1,439,292; 1,483,412; 1,489,497; 1,491,588; 1,502,336; 1,510,598
—, —, —, —, pumice for, 1,141,947; 1,141,948; 1,143,366; 1,151,537; 1,159,364; 1,159,365; 1,173,532; 1,363,392; 1,363,393; 1,439,291; 1,439,292
—, —, —, —, pyrite for, 1,148,570; 1,152,930; 1,502,336
—, —, —, —, rare earth nitrate for, 1,148,570
—, —, —, —, rare earth oxide for, 1,148,570
—, —, —, —, rhodium for, 1,157,253
—, —, —, —, rhodium chloride for, 1,157,253
—, —, —, —, ruthenium for, 1,157,253; 1,352,178
—, —, —, —, ruthenium compound for, 1,173,532
—, —, —, —, ruthenium oxide for, 1,173,532
—, —, —, —, salts for, 1,148,570; 1,152,930
—, —, —, —, silicon for, 1,141,948; 1,159,365
—, —, —, —, silicon chloride for, 1,141,948; 1,159,365
—, —, —, —, silicon dioxide for, 1,489,497
—, —, —, —, sodamide for, 1,159,364; 1,159,365
—, —, —, —, sodium for, 1,141,947; 1,141,948; 1,143,366; 1,151,537; 1,159,364; 1,159,365; 1,206,156
—, —, —, —, sodium aluminate for, 1,206,155; 1,489,497
—, —, —, —, sodium amide for, 1,141,947; 1,141,948; 1,143,366
—, —, —, —, sodium carbonate for, 1,148,570; 1,152,930; 1,206,155; 1,206,156
—, —, —, —, sodium ferrite for, 1,206,155
—, —, —, —, sodium oxide for, 1,206,155; 1,489,497
—, —, —, —, sodium silicate for, 1,489,497
—, —, —, —, sodium sulfate for, 1,206,155
—, —, —, —, strontium for, 1,491,588
—, —, —, —, strontium carbonate for, 1,483,412
—, —, —, —, strontium cyanamide for, 1,352,178
—, —, —, —, strontium ferricyanide for, 1,363,392; 1,363,393
—, —, —, —, strontium ferrocyanide for, 1,363,392; 1,363,393
—, —, —, —, strontium hydroxide for, 1,483,412
—, —, —, —, strontium nitrate for, 1,148,570; 1,152,930
—, —, —, —, strontium nitride for, 1,491,588
—, —, —, —, strontium oxide for, 1,489,497; 1,491,588
—, —, —, —, sulfate for, 1,206,155
—, —, —, —, sulfide for, 1,206,155
—, —, —, —, tantalum for, 1,352,178
—, —, —, —, thorium for, 1,491,588
—, —, —, —, thorium nitride for, 1,491,588
—, —, —, —, thorium oxide for, 1,489,497; 1,491,588
—, —, —, —, titanium for, 1,141,948; 1,159,365; 1,491,588
—, —, —, —, titanium chloride for, 1,141,948; 1,159,365
—, —, —, —, titanium nitride for, 1,491,588
—, —, —, —, titanium oxide for, 1,491,588
—, —, —, —, tungsten for, 1,491,588
Ammonia, mfr. of, catalyst for, mfr. of, tungsten oxide for, 1,175,693; 1,244,580; 1,491,588
—, —, —, —, tungstic acid for, 1,175,693
—, —, —, —, uranium for, 1,141,948; 1,159,365; 1,491,588
—, —, —, —, uranium chloride for, 1,141,948; 1,159,365
—, —, —, —, uranium nitride for, 1,491,588
—, —, —, —, uranium oxide for, 1,491,588
—, —, —, —, vanadium for, 1,352,178; 1,491,588
—, —, —, —, vanadium nitride for, 1,491,588
—, —, —, —, vanadium oxide for, 1,491,588
—, —, —, —, yttrium for, 1,167,280; 1,184,839
—, —, —, —, zirconium for, 1,491,588
—, —, —, —, zirconium nitrate for, 1,148,570; 1,152,930
—, —, —, —, zirconium nitride for, 1,491,588
—, —, —, —, zirconium oxide for, 1,491,588
—, —, cellulose sulfite liquor for, 1,202,317; 1,298,594
—, —, cerium as catalyst for, 1,313,314; 1,313,315; 1,313,316
—, —, cerium as catalyst promoter for, 1,148,570; 1,152,930
—, —, cerium alloy as catalyst for, 1,313,314; 1,313,315; 1,313,316
—, —, cerium carbide as catalyst for, 1,273,772
—, —, cerium hydride as catalyst for, 1,313,314; 1,313,315; 1,313,316
—, —, cerium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, cerium nitride as catalyst for, 1,313,314; 1,313,315; 1,313,316
—, —, cerium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, cerium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, cesium, catalyst contg., for, 1,495,655
—, —, cesium as catalyst promoter for, 1,148,570; 1,152,930
—, —, cesium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, cesium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, cesium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, charcoal for, 1,137,524; 1,138,191; 1,186,921; 1,187,633; 1,319,663; 1,466,624; 1,466,626; 1,466,628; 1,483,413; 1,487,521
—, —, charcoal, catalyst contg., for, 1,352,180; 1,352,181; 1,352,182
—, —, chloride for, 1,206,155; 1,463,508
—, —, chloride as catalyst for, 1,315,534
—, —, chlorine for, 1,473,966
—, —, chromium for, 1,148,570; 1,152,930; 1,206,155; 1,483,413
—, —, chromium, catalyst contg., for, 1,128,843; 1,256,273; 1,256,875; 1,476,283; 1,495,655
—, —, chromium as catalyst promoter for, 1,148,570; 1,152,930
—, —, chromium carbide as catalyst for, 1,128,843; 1,273,772
—, —, chromium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, chromium nitride as catalyst for, 1,128,843
—, —, chromium oxide for, 1,415,280

Ammonia, mfr. of, chromium oxide as catalyst for, 1,516,720
—, —, chromium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, chromium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, chrysolite as catalyst carrier for, 1,256,875
—, —, clay, fire, for, 1,415,280
—, —, coal for, 1,123,763; 1,138,191; 1,158,899; 1,159,989; 1,177,727; 1,204,789; 1,242,264; 1,251,954; 1,255,593; 1,266,147; 1,315,534; 1,413,799; 1,466,626; 1,488,055; 1,498,031
—, —, coal, anthracite, for, 1,158,899
—, —, —, bituminous, for, 1,130,001; 1,146,776; 1,488,055
—, —, coal dust for, 1,129,504; 1,129,505; 1,129,721; 1,129,722; 1,134,411; 1,204,789
—, —, coal tar for, 1,237,485
—, —, cobalt for, 1,206,155; 1,206,156; 1,415,280
—, —, cobalt, catalyst contg., for, 1,306,862; 1,495,655
—, —, cobalt as catalyst for, 1,128,843; 1,244,580; 1,256,273; 1,256,875; 1,313,316; 1,476,283
—, —, cobalt acetate for, 1,473,543; 1,473,544
—, —, cobalt carbide as catalyst for, 1,128,843; 1,273,772
—, —, cobalt carbonate for, 1,473,543; 1,473,544;
—, —, cobalt cyanamide in catalyst for, 1,352,180; 1,352,181; 1,352,182
—, —, cobalt hydroxide for, 1,273,772; 1,473,543; 1,473,544
—, —, cobalt nitride, ammonia, made with, 1,473,543; 1,473,544
—, —, cobalt nitride as catalyst for, 1,128,843
—, —, cobalt oxalate for, 1,473,543; 1,473,544
—, —, cobalt oxide for, 1,473,543; 1,473,544
—, —, cobalt salt, organic, for, 1,473,543; 1,473,544
—, —, coke for, 1,123,763; 1,129,504; 1,129,505; 1,129,721; 1,129,722; 1,134,411; 1,137,524; 1,138,191; 1,158,899; 1,198,965; 1,237,485; 1,242,264; 1,313,312; 1,315,534; 1,466,626; 1,483,413
—, —, coke, bituminous, coal, for, 1,237,485
—, —, —, petroleum, for, 1,237,485
—, —, —, Scotch anthracite, for, 1,237,485
—, —, —, shale oil, for, 1,237,485
—, —, —, tar, for, 1,237,485
—, —, —, Welsh anthracite, for, 1,237,485
—, —, coke by-product for, 1,127,949
—, —, coke oven liquor for, 1,324,979
—, —, columbium oxide for, 1,415,280
—, —, compound for purification of gases for, mfr. of, acetylene for, 1,483,414
—, —, —, —, alkali bicarbonate for, 1,483,413
—, —, —, —, alkali carbonate for, 1,483,413; 1,483,414
—, —, —, —, alkali earth carbonate for, 1,483,414
—, —, —, —, alkali earth cyanide for, 1,483,414
—, —, —, —, alkali earth hydroxide for, 1,483,414
—, —, —, —, alkali earth oxide for, 1,483,414
—, —, —, —, alkali cyanide for, 1,483,414
—, —, —, —, alkali hydroxide for, 1,483,414
—, —, —, —, alkali oxide for, 1,483,414
—, —, —, —, barium carbide for, 1,483,414
—, —, —, —, barium carbonate for, 1,483,413
—, —, —, —, bicarbonate for, 1,483,413
Ammonia, mfr. of, compound for purification of gases for, mfr. of, calcium carbide for, 1,483,414
—, —, —, —, calcium carbonate for, 1,483,413
—, —, —, —, carbon for, 1,483,413
—, —, —, —, carbonate for, 1,483,413
—, —, —, —, charcoal for, 1,483,413
—, —, —, —, chromium for, 1,483,413
—, —, —, —, coke for, 1,483,413
—, —, —, —, hydrogen for, 1,483,413; 1,483,414
—, —, —, —, iron for, 1,483,413
—, —, —, —, iron carbonate for, 1,483,413
—, —, —, —, iron oxide for, 1,483,413
—, —, —, —, manganese for, 1,483,413
—, —, —, —, metal carbide for, 1,483,414
—, —, —, —, metal carbonate for, 1,483,413
—, —, —, —, metal carbonitride for, 1,483,413
—, —, —, —, nitrogen for, 1,483,413; 1,483,414
—, —, —, —, producer gas for, 1,483,413
—, —, —, —, strontium carbonate for, 1,483,413
—, —, copper for, 1,229,611
—, —, copper carbide as catalyst for, 1,273,772
—, —, copper(ous) compounds for, 1,390,200
—, —, copper cyanamide as catalyst for, 1,352,177; 1,352,179
—, —, copper electrode for, 1,212,062; 1,256,875
—, —, copper nitride as catalyst for, 1,352,177; 1,352,179
—, —, cornstalk for, 1,146,776
—, —, cottonseed oil as catalyst promoter for, 1,313,316
—, —, cracking process for, 1,516,720
—, —, crude oil for, 1,256,273
—, —, cryolite for, 1,502,129
—, —, cyanamide for, 1,315,534; 1,332,100; 1,365,739; 1,517,870
—, —, cyanide for, 1,295,262; 1,295,293; 1,312,842; 1,313,312; 1,315,534; 1,354,574
—, —, cyanide residue purified in, process for, 1,453,210
—, —, cyanogen compound for, 1,492,661
—, —, cyanonitride for, 1,159,989
—, —, dicyandiamide for, 1,149,653
—, —, "dimetal isocyanide" for, 1,315,534
—, —, Dinas stone for, 1,207,416
—, —, diphenyl as catalyst promoter for, 1,313,316
—, —, distillers wash for, 1,165,358; 1,207,416
—, —, distillery slop for, 1,504,730
—, —, distillery waste for, 1,504,730
—, —, distilling cellulose waste liquors for, 1,347,713
—, —, electric discharge, dark, for, 1,256,875
—, —, —, silent, for, 1,489,724
—, —, —, spark, for, 1,256,875
—, —, electrolytic, 1,376,207
—, —, electrolytic cell for, sodium silicate for, 1,311,506
—, —, —, silicate, soluble, for, 1,311,506
—, —, erbium as catalyst promoter for, 1,148,570; 1,152,930
—, —, erbium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, erbium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, erbium salt as catalyst promoter for, 1,148,570; 1,152,930

Ammonia, mfr. of, ethane for, 1,206,156
—, —, feldspar for, 1,129,224; 1,129,506; 1,134,411; 1,463,508; 1,466,624; 1,466,625; 1,466,626; 1,466,628
—, —, fecula for, 1,198,965
—, —, ferro-alloy for, 1,198,965
—, —, ferro-aluminum for, 1,198,965
—, —, ferrocyanide for, 1,295,293; 1,312,842
—, —, ferropotassium ferrocyanide as catalyzer in, 1,452,027
—, —, flue gas for, 1,163,095
—, —, fluoride as catalyst for, 1,315,534
—, —, fuel for, 1,172,863
—, —, fuller earth for, 1,504,730
—, —, furnace method of, 1,390,533
—, —, garbage for, 1,146,776; 1,165,368; 1,330,435
—, —, gas purification for, alkali earth metal for, 1,478,889
—, —, —, alkali metal for, 1,478,889
—, —, —, ammonia, liquid for, 1,478,889
—, —, —, calcium for, 1,478,889
—, —, —, process for, 1,478,889
—, —, —, sodium for, 1,478,889
—, —, glass for, 1,148,570; 1,152,930; 1,256,875
—, —, glauconite for, 1,466,626
—, —, gold, catalyst contg., for, 1,495,655
—, —, gold as catalyst for, 1,256,875
—, —, gold alloy, palladium in, as catalyst for, 1,388,995
—, —, graphite for, 1,138,191
—, —, greensand for, 1,466,625
—, —, "gum carbon" by product, 1,476,242
—, —, gun powder mill refuse for, 1,165,368
—, —, hematite for, 1,138,191
—, —, hornblende asbestos as catalyst carrier for, 1,256,875
—, —, hydrocarbon, paraffin, for, 1,256,273
—, —, hydrocarbon for, 1,138,191; 1,229,611; 1,306,862; 1,415,280; 1,466,624; 1,466,628; 1,498,031; 1,516,720
—, —, hydrocyanic acid for, 1,492,661; 1,498,031
—, —, hydrogen, liquid, for, 1,490,627
—, —, —, nascent, for, 1,328,082
—, —, hydrogen for, 1,125,208; 1,128,843; 1,129,504; 1,129,505; 1,129,721; 1,129,722; 1,130,001; 1,141,947; 1,141,948; 1,143,366; 1,147,184; 1,148,570; 1,152,930; 1,151,537; 1,159,364; 1,159,365; 1,167,280; 1,173,532; 1,184,839; 1,188,530; 1,201,226; 1,202,995; 1,204,789; 1,206,155; 1,207,567; 1,221,505; 1,242,264; 1,243,382; 1,244,580; 1,251,954; 1,252,726; 1,256,875; 1,273,772; 1,278,580; 1,306,862; 1,312,534; 1,313,314; 1,313,315; 1,313,316; 1,319,663; 1,334,590; 1,352,180; 1,352,181; 1,352,182; 1,363,392; 1,363,393; 1,390,200; 1,473,543; 1,473,544; 1,478,549; 1,478,550; 1,483,411; 1,483,412; 1,483,413; 1,483,414; 1,489,497; 1,489,724; 1,491,588; 1,495,563; 1,495,655; 1,498,031; 1,502,336; 1,503,319; 1,505,065; 1,507,560; 1,510,598; 1,516,720; 1,517,870; 1,518,421
—, —, —, mfr. of, process for, 1,200,805; 1,211,395
—, —, hydrogen and aluminum silicon nitride for, 1,379,668
Ammonia, mfr. of, hydrogen-nitrogen mixture free from arsenic compounds for, 1,296,992
—, —, hydrogen-nitrogen mixture free from carbon monoxide for, 1,296,992
—, —, hydrogen-nitrogen mixture free from sulfur compounds for, 1,296,992
—, —, hydrogen sulfide for, 1,490,728
—, —, hydroxide for, 1,313,312
—, —, illuminating gas for, 1,129,504; 1,129,505; 1,129,721; 1,129,722; 1,498,031
—, —, ilmenite for, 1,487,521
—, —, iridium, catalyst contg., for, 1,495,655
—, —, —, palladium alloy contg., as catalyst for, 1,388,995
—, —, isocyanide for, 1,315,534
—, —, iron, asbestos impregnated with, for, 1,148,570; 1,152,930
—, —, iron, catalyst contg., for, 1,306,862; 1,495,655
—, —, iron, palladium alloy contg., as catalyst for, 1,388,995
—, —, iron, wrought, apparatus, for, 1,188,530
—, —, iron for, 1,138,191; 1,198,965; 1,206,155; 1,206,156; 1,229,611; 1,241,919; 1,241,920; 1,313,312; 1,328,082; 1,415,280; 1,417,702; 1,466,626; 1,483,413
—, —, iron as catalyst for, 1,128 843; 1,138,191; 1,148,570; 1,152,930; 1,244,580; 1,252,726; 1,256,273; 1,256,875; 1,313,316; 1,466,624; 1,466,628; 1,476,283; 1,516,720
—, —, iron acetate for, 1,206,155; 1,473,543; 1,473,544
—, —, iron carbide for, 1,207,567; 1,417,702
—, —, iron carbide (FeC_2), for, 1,123,763
—, —, iron carbide as catalyst for, 1,128,843; 1,273,772
—, —, iron carbonate for, 1,123,763; 1,138,191; 1,473,543; 1,473,544; 1,483,413
—, —, iron carbonate, catalyst contg., for, 1,306,862
—, —, iron carbonitride for, 1,134,411
—, —, iron chromate as catalyst for, 1,516,720
—, —, iron compound for, 1,138,191
—, —, iron cyanide ($Fe(CN)_2$), for, 1,123,763
—, —, iron cyanide as catalyzer in, 1,452,027
—, —, iron filings for, 1,148,570; 1,152,930; 1,415,280; 1,417,702
—, —, iron hydroxide for, 1,138,191; 1,273,772; 1,390,200; 1,473,543; 1,473,544
—, —, iron nitride, ammonia made with, 1,473,543; 1,473,544
—, —, iron nitride as catalyst for, 1,128,843
—, —, iron ore for, 1,138,191; 1,313,312; 1,466,625
—, —, iron oxalate for, 1,473,543; 1,473,544
—, —, iron oxide for, 1,123,763; 1,134,411; 1,138,191; 1,206,155; 1,313,312; 1,390,200; 1,415,280; 1,473,543; 1,473,544; 1,483,413
—, —, iron oxide, catalyst contg., for, 1,306,862
—, —, iron oxide (Fe_3O_4), for, 1,206,156
—, —, iron production by-product, 1,466,625; 1,466,626
—, —, iron salt, organic, for, 1,473,543; 1,473,544
—, —, iron scale for, 1,138,191
—, —, kerosene for, 1,313,315; 1,516,720
—, —, kieselguhr for, 1,504,730

Ammonia, mfr. of, kieselguhr as catalyst carrier for, 1,256,875
—, —, lanthanum as catalyst promoter for, 1,148,570; 1,152,930
—, —, lanthanum hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, lanthanum oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, lanthanum salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, lead, catalyst contg., for, 1,495,655
—, —, lead as catalyst poison for, 1,148,570; 1,152,930
—, —, lead alloy, sodium in, for, 1,198,987
—, —, lead carbonitride for, 1,134,411
—, —, lead compound as catalyst poison for, 1,148,570; 1,152,930
—, —, lead oxide for, 1,134,411
—, —, leucite for, 1,129,224; 1,129,506; 1,466,625
—, —, lignite for, 1,146,776; 1,266,147
—, —, lime for, 1,148,570; 1,152,930; 1,165,368; 1,210,598; 1,229,611; 1,266,147; 1,310,306; 1,315,534; 1,330,435; 1,466,624; 1,466,628; 1,499,002; 1,504,730
—, —, limestone for, 1,504,730
—, —, lithium, catalyst contg., for, 1,495,655
—, —, lithium as catalyst for, 1,128,843
—, —, lithium as catalyst promoter for, 1,148,570; 1,152,930
—, —, lithium carbide as catalyst for, 1,128,843
—, —, lithium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, lithium-manganese nitride as, 1,128,843
—, —, lithium nitride as catalyst for, 1,128,843
—, —, lithium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, lithium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, magnesia for, 1,466,624; 1,466,628
—, —, magnesia as catalyst carrier for, 1,256,875
—, —, magnesium, catalyst contg., for, 1,306,862; 1,495,655
—, —, magnesium as catalyst promoter for, 1,148,570; 1,152,930
—, —, magnesium carbide for, 1,123,763; 1,207,567
—, —, magnesium carbonate for, 1,473,543; 1,473,544; 1,473,966
—, —, magnesium cyanamide in catalyst for, 1,473,543; 1,473,544
—, —, magnesium cyanide for, 1,123,763
—, —, magnesium ferrocyanide in catalyst for, 1,306,862
—, —, magnesium hydroxide for, 1,473,966
—, —, magnesium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, magnesium nitride for, 1,159,989; 1,319,843
—, —, magnesium oxide for, 1,123,763; 1,134,412; 1,206,155; 1,206,156; 1,256,273; 1,473,966
—, —, magnesium oxide, catalyst contg., for, 1,306,862
—, —, magnesium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, magnesium oxychloride for, 1,473,966
—, —, magnesium salt as catalyst promoter for, 1,148,570; 1,152,930
Ammonia, mfr. of, magnetite for, 1,138,191
—, —, manganese for, 1,148,570; 1,152,930; 1,483,413
—, —, manganese, catalyst contg., for, 1,495,655
—, —, manganese as catalyst for, 1,128,843; 1,256,875; 1,476,283
—, —, manganese as catalyst promoter for, 1,148,570; 1,152,930
—, —, manganese acetate for, 1,473,543; 1,473,544
—, —, manganese carbide as catalyst for, 1,128,843; 1,273,772
—, —, manganese carbonate for, 1,473,543; 1,473,544
—, —, manganese cyanamide, catalyst contg., for, 1,352,174; 1,352,180; 1,352,181; 1,352,182
—, —, manganese dioxide for, 1,242,264
—, —, manganese hydroxide for, 1,273,772; 1,473,543; 1,473,544
—, —, manganese hydroxide as catalyst promotor for, 1,148,570; 1,152,930
—, —, manganese nitride, ammonia made with, 1,473,543; 1,473,544
—, —, manganese nitride as catalyst for, 1,128,843
—, —, manganese oxalate for, 1,473,543; 1,473,544
—, —, manganese oxide, 1,415,280; 1,473,543; 1,473,544
—, —, manganese oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, manganese salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, —, organic, for, 1,473,543; 1,473,544
—, —, marsh gas for, 1,206,155
—, —, mercury in catalyst for, 1,495,655
—, —, metal, colloidal, as catalyst for, 1,256,875
—, —, —, iron group as catalyst for, 1,256,875
—, —, —, platinum group as catalyst for, 1,256,875
—, —, metal as catalyst for, 1,128,843
—, —, metal carbide for, 1,123,763; 1,207,567; 1,483,414
—, —, metal carbide as catalyst for, 1,128,843
—, —, metal carbonate for, 1,483,413
—, —, metal carbonitride for, 1,134,411; 1,483,413
—, —, metal nitride as catalyst for, 1,128,843
—, —, metal oxide for, 1,134,411; 1,415,280
—, —, metal salt for, 1,487,521
—, —, methane for, 1,206,155; 1,206,156; 1,256,272; 1,256,273; 1,415,280; 1,417,702
—, —, mica schist for, 1,466,625
—, —, microcline for, 1,129,505; 1,129,721; 1,134,411
—, —, mineral wool as catalyst carrier for, 1,256,875
—, —, molasses for, 1,256,273
—, —, molybdenum as catalyst for, 1,128,843; 1,244,580; 1,256,875
—, —, molybdenum as catalyst promoter for, 1,148,570; 1,152,930
—, —, molybdenum carbide as catalyst for, 1,128,843; 1,273,772
—, —, molybdenum hydroxide as catalyst promoter for, 1,148,570; 1,152,930

Ammonia, mfr. of, molybdenum nitride as catalyst for, 1,128,843
—, —, molybdenum oxide for, 1,415,280
—, —, molybdenum oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, molybdenum salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, Mond gas mfr. by-product, 1,210,598
—, —, natural gas for, 1,206,155; 1,206,156; 1,256,272; 1,256,273; 1,306,862; 1,415,280; 1,417,702
—, —, neodymium as catalyst promoter for, 1,148,570; 1,152,930
—, —, neodymium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, neodymium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, neodymium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, nickel for, 1,148,570; 1,152,930; 1,206,155; 1,206,156; 1,415,280
—, —, nickel, catalyst contg., for, 1,306,862; 1,495,655
—, —, —, palladium alloy contg., as catalyst for, 1,388,995
—, —, nickel as catalyst for, 1,128,843; 1,256,273; 1,256,875; 1,313,316; 1,476,283; 1,516,720
—, —, nickel apparatus for, 1,188,530
—, —, nickel carbide as catalyst for, 1,128,843; 1,273,772
—, —, nickel hydroxide for, 1,273,772
—, —, nickel nitride as catalyst for, 1,128,843
—, —, nickel oxide for, 1,278,580
—, —, niobium as catalyst promoter for, 1,148,570; 1,152,930
—, —, niobium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, niobium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, niobium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, nitrate for, 1,311,506; 1,463,508
—, —, nitride for, 1,315,534; 1,320,192
—, —, nitrite for, 1,311,506
—, —, nitrogen for, 1,123,584; 1,123,763; 1,125,208; 1,128,843; 1,129,224; 1,129,504; 1,129,505; 1,129,506; 1,129,507; 1,129,508; 1,129,509; 1,129,510; 1,129,511; 1,129,514; 1,129,721; 1,129,722; 1,134,411; 1,134,412; 1,134,413; 1,134,414; 1,137,524; 1,138,191; 1,141,947; 1,141,948; 1,143,366; 1,147,184; 1,148,570; 1,151,537; 1,152,930; 1,154,801; 1,158,899; 1,159,364; 1,159,365; 1,159,989; 1,167,280; 1,173,532; 1,180,840; 1,184,839; 1,186,921; 1,187,633; 1,201,226; 1,202,995; 1,206,155; 1,206,156; 1,207,567; 1,211,395; 1,221,505; 1,237,485; 1,241,919; 1,241,920; 1,242,264; 1,243,382; 1,244,580; 1,252,726; 1,256,273; 1,256,875; 1,273,772; 1,278,580; 1,306,862; 1,312,534; 1,313,312; 1,313,314; 1,313,315; 1,313,316; 1,315,532; 1,319,663; 1,328,082; 1,334,590; 1,352,180; 1,352,181; 1,352,182; 1,363,392; 1,363,393; 1,390,200; 1,415,280; 1,417,702; 1,464,292; 1,466,624; 1,466,626; 1,466,628; 1,473,543; 1,473,544; 1,478,549; 1,478,550; 1,483,411; 1,483,412; 1,483,413; 1,483,414; 1,487,521; 1,487,647; 1,489,497; 1,489,724; 1,491,588; 1,492,661; 1,495,563; 1,495,655; 1,498,031; 1,501,840; 1,502,336; 1,503,319; 1,507,560; 1,510,179; 1,510,598; 1,516,720; 1,517,870; 1,518,421
Ammonia, mfr. of, nitrogen, liquid, for, 1,490,627
—, —, nitrogen-hydrogen mixture for, 1,296,992
—, —, nitrogen and nascent hydrogen for, 1,328,082
—, —, nut shells for, 1,504,730
—, —, octahedrite for, 1,487,521
—, —, oil as catalyst poison for, 1,148,570; 1,152,930
—, —, oil shale for, 1,269,747; 1,488,055
—, —, organic compound, unsaturated, as catalyst promoter for, 1,313,316
—, —, organic liquid for, 1,313,315
—, —, orthoclase for, 1,129,224; 1,129,505; 1,129,721; 1,134,411; 1,466,624; 1,466,628
—, —, osmium, catalyst contg., for, 1,495,655
—, —, —, palladium alloy contg., as catalyst for, 1,388,995
—, —, osmium as catalyst for, 1,202,995
—, —, oxygen for, 1,172,863; 1,494,735; 1,516,720
—, —, oxygen, effect of on, 1,184,839
—, —, oxygen as catalyst poison for, 1,313,315
—, —, oxygen compound as catalyst poison for, 1,313,315
—, —, palladium, catalyst contg., for, 1,495,655
—, —, palladium alloy, gold in, as catalyst for, 1,388,995
—, —, —, iridium in, as catalyst for, 1,388,995
—, —, —, iron in, as catalyst for, 1,388,995
—, —, —, nickel in, as catalyst for, 1,388,995
—, —, —, osmium in, as catalyst for, 1,388,995
—, —, —, platinum in, as catalyst for, 1,388,995
—, —, —, rhodium in, as catalyst for, 1,388,995
—, —, —, ruthenium in, as catalyst for, 1,388,995
—, —, —, silver in, as catalyst for, 1,388,995
—, —, —, titanium in, as catalyst for, 1,388,995
—, —, —, vanadium in, as catalyst for, 1,388,995
—, —, palladium carbide as catalyst for, 1,273,772
—, —, paraffin for, 1,313,315
—, —, peat for, 1,145,095; 1,146,776; 1,251,954; 1,266,147; 1,488,055; 1,495,461
—, —, petroleum for, 1,138,191; 1,229,611; 1,313,315
—, —, petroleum residuum for, 1,516,720
—, —, phosphate rock for, 1,129,504; 1,129,514; 1,129,722; 1,252,318
—, —, phosphate rock, alumina contg., for, 1,134,414
—, —, phosphine, cyanamide contg., for, 1,370,867
—, —, phosphoric acid for, 1,221,505
—, —, phosphorus for, 1,510,179
—, —, phosphorus as catalyst poison for, 1,148,570; 1,152,930
—, —, phosphorus carbonitride ($P_2C_5N_{10}$), for, 1,129,504; 1,129,722
—, —, phosphorus compound as catalyst poison for, 1,148,570; 1,152,930
—, —, phosphorus nitride for, 1,129,504; 1,129,722; 1,510,179
—, —, pitch for, 1,123,763; 1,251,954; 1,498,031

Ammonia, mfr. of, platinum, catalyst contg., for, 1,495,655
—, —, —, palladium alloy contg., as catalyst for, 1,388,995
—, —, platinum as catalyst for, 1,256,875
—, —, platinum carbide as catalyst for, 1,273,772
—, —, porcelain for, 1,256,875
—, —, potassium for, 1,206,156
—, —, potassium as catalyst promoter for, 1,148,570; 1,152,930
—, —, potassium acetate for, 1,473,543
—, —, potassium acetate, catalyst contg., for, 1,306,862
—, —, potassium aluminum silicates for, 1,134,411
—, —, potassium amide for, 1,197,329; 1,198,987
—, —, potassium amide as catalyst for, 1,151,537
—, —, potassium carbonate for, 1,138,191; 1,149,653; 1,186,921; 1,187,633; 1,206,155; 1,206,156; 1,415,280; 1,466,625
—, —, potassium carbonate, catalyst contg., for, 1,306,862
—, —, potassium carbonate as catalyst promoter for, 1,476,283
—, —, potassium carbonitride (K_2CN_2), for, 1,129,224; 1,129,505; 1,129,506; 1,129,510; 1,129,721; 1,134,413
—, —, potassium chloride for, 1,149,653; 1,473,966
—, —, potassium compound for, 1,129,506
—, —, potassium cyanamide, catalyst contg., for, 1,352,174; 1,352,180; 1,352,181; 1,352,182
—, —, potassium cyanamide as catalyst for, 1,473,543
—, —, potassium cyanide for, 1,138,191; 1,186,921; 1,187,633
—, —, potassium cyanide as catalyst promoter for, 1,476,283
—, —, potassium ferricyanide as catalyst for, 1,454,599
—, —, potassium ferri ferrocyanide as catalyst for, 1,452,027
—, —, potassium ferrocyanide, catalyst contg., for, 1,306,862; 1,454,599
—, —, potassium hydroxide for, 1,149,653; 1,186,921; 1,187,633; 1,415,280
—, —, potassium hydroxide, catalyst contg., for, 1,306,862
—, —, potassium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, potassium nitrate for, 1,165,368
—, —, potassium nitride (K_3N), for, 1,129,505; 1,129,721
—, —, potassium oxalate for, 1,473,543
—, —, potassium oxalate, catalyst contg., for, 1,306,862
—, —, potassium oxide for, 1,129,510; 1,206,155; 1,415,280
—, —, potassium oxide, catalyst contg., for, 1,306,862
—, —, potassium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, potassium salts for, 1,415,280; 1,417,702
—, —, potassium salt as catalyst promoter for, 1,148,570; 1,152,930
Ammonia, mfr. of, potassium silicates for, 1,129,224; 1,129,505; 1,129,721; 1,466,624; 1,466,625; 1,466,626; 1,466,628
—, —, potassium sulfate for, 1,149,653; 1,206,155
—, —, potassium titanium oxalate for, 1,473,543
—, —, praseodymium as catalyst promoter for, 1,148,570; 1,152,930
—, —, praseodymium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, praseodymium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, praseodymium salts as catalyst promoter for, 1,148,570; 1,152,930
—, —, process for, 1,123,584; 1,123,763; 1,125,208; 1,128,843; 1,129,224; 1,129,504; 1,129,505; 1,129,506; 1,129,507; 1,129,508; 1,129,509; 1,129,510; 1,129,511; 1,129,514; 1,129,721; 1,129,722; 1,130,001; 1,134,411; 1,134,412; 1,134,413; 1,134,414; 1,137,524; 1,138,191; 1,141,947; 1,141,948; 1,143,366; 1,145,095; 1,146,776; 1,147,184; 1,148,570; 1,149,653; 1,151,537; 1,152,930; 1,154,640; 1,154,801; 1,156,606; 1,158,899; 1,159,364; 1,159,365; 1,159,989; 1,163,095; 1,165,358; 1,165,368; 1,167,280; 1,172,863; 1,173,532; 1,177,727; 1,180,840; 1,183,885; 1,184,839; 1,186,367; 1,186,921; 1,187,633; 1,188,530; 1,188,770; 1,189,638; 1,198,965; 1,198,987; 1,201,226; 1,202,317; 1,202,995; 1,204,789; 1,204,843; 1,206,155; 1,206,156; 1,207,416; 1,207,567; 1,208,242; 1,209,258; 1,210,598; 1,211,395; 1,212,062; 1,221,058; 1,221,505; 1,237,485; 1,229,611; 1,241,919; 1,241,920; 1,242,264; 1,242,953; 1,243,382; 1,244,580; 1,244,903; 1,251,954; 1,252,726; 1,255,593; 1,256,272; 1,256,273; 1,256,875; 1,261,526; 1,266,147; 1,273,772; 1,278,580; 1,296,820; 1,306,862; 1,312,534; 1,313,312; 1,313,314; 1,313,315; 1,313,316; 1,313,884; 1,313,885; 1,313,886; 1,315,532; 1,315,534; 1,324,979; 1,326,045; 1,328,082; 1,330,435; 1,332,100; 1,334,590; 1,352,174; 1,352,177; 1,352,178; 1,352,179; 1,352,180; 1,352,181; 1,352,182; 1,363,392; 1,363,393; 1,390,200; 1,415,280; 1,417,702; 1,439,291; 1,439,292; 1,454,599; 1,463,508; 1,464,299; 1,466,624; 1,466,625; 1,466,626; 1,466,628; 1,473,543; 1,473,544; 1,473,966; 1,478,549; 1,478,550; 1,483,411; 1,483,412; 1,483,413; 1,483,414; 1,487,521; 1,488,055; 1,489,497; 1,489,724; 1,490,627; 1,490,728; 1,491,588; 1,492,661; 1,494,735; 1,495,461; 1,495,563; 1,495,655; 1,498,031; 1,499,001; 1,499,002; 1,501,436; 1,501,840; 1,502,129; 1,502,336; 1,503,319; 1,504,730; 1,507,560; 1,510,179; 1,510,598; 1,516,720; 1,517,870; 1,518,421
—, —, producer gas for, 1,129,504; 1,129,507; 1,129,508; 1,129,509; 1,129,510; 1,129,511; 1,129,722; 1,134,411; 1,134,412; 1,134,413; 1,154,801; 1,158,899; 1,242,264; 1,483,413
—, —, propane for, 1,206,156
—, —, pumice as catalyst carrier for, 1,516,720
—, —, pyridine compounds for, 1,207,416
—, —, pyrite for, 1,503,319
—, —, pyrolusite for, 1,242,264
—, —, quartz for, 1,207,416
—, —, rare earth metal as catalyst for, 1,313,314

Ammonia, mfr. of, rare earth metals as catalyst promoter for, 1,148,570; 1,152,930
—, —, rare earth metals hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, rare earth metals oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, rare earth metals salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, "redonda phosphate" for, 1,134,414
—, —, resin oil for, 1,229,611
—, —, retort carbon for, 1,237,485
—, —, rhodium, palladium alloy contg., as catalyst for, 1,388,995
—, —, rubidium as catalyst promoter for, 1,148,570; 1,152,930
—, —, rubidium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, rubidium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, rubidium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, ruthenium, palladium alloy contg., as catalyst for, 1,388,995
—, —, rutile for, 1,487,521
—, —, rye flour for, 1,198,965
—, —, salt for, 1,502,129
—, —, samarium as catalyst promoter for, 1,148,570; 1,152,930
—, —, samarium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, samarium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, samarium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, sand, titaniferous, for, 1,415,280
—, —, sawdust for, 1,202,317; 1,504,730
—, —, selenium as catalyst poison for, 1,148,570; 1,152,930
—, —, selenium compound as catalyst poison for, 1,148,570; 1,152,930
—, —, sewage for, 1,330,435
—, —, sewage sludge for, 1,165,368; 1,189,638
—, —, shale, bituminous, for, 1,494,735
—, —, siderite for, 1,138,191
—, —, silica for, 1,129,507
—, —, silicates for, 1,134,411; 1,466,626
—, —, silicates as catalyst carrier for, 1,256,875
—, —, silicic acid as catalyst carrier for, 1,256,875
—, —, silicon for, 1,198,965
—, —, silicon compound for, 1,129,506
—, —, silicon dioxide for, 1,129,506; 1,129,507 1,165,358
—, —, silicon nitride for, 1,159,989
—, —, silk, artificial, cellulose nitrate, nitration waste liquor from, for, 1,490,728
—, —, silver, catalyst contg., for, 1,495,655
—, —, —, palladium, alloy contg., as catalyst for, 1,388,995
—, —, silver apparatus for, 1,188,530
—, —, silver cyanamide as catalyst for, 1,352,177; 1,352,179
—, —, sodamide for, 1,197,329; 1,198,987
—, —, sodium for, 1,138,191; 1,180,840; 1,206,156; 1,464,292
—, —, sodium, catalyst contg., for, 1,306,862; 1,495,655
Ammonia, mfr. of, sodium, lead alloy contg., for, 1,198,987
—, —, sodium as catalyst promoter for, 1,148,570; 1,152,930
—, —, sodium acetate in catalyst for, 1,306,862
—, —, sodium aluminate for, 1,206,155; 1,466,626
—, —, sodium amide as catalyst for, 1,151,537
—, —, sodium bicarbonate for, 1,138,191
—, —, sodium carbonate for, 1,138,191; 1,149,653; 1,163,095; 1,180,840; 1,187,633; 1,206,155; 1,206,156; 1,241,919; 1,241,920; 1,256,273; 1,266,147; 1,313,312; 1,313,884; 1,313,885; 1,313,886; 1,315,534; 1,332,100; 1,415,280; 1,417,702; 1,466,624; 1,466,626; 1,466,628; 1,487,521
—, —, sodium carbonate, catalyst contg., for, 1,306,862
—, —, sodium carbonate as catalyst for, 1,138,191
—, —, sodium carbonitride (Na_2CN_2), for, 1,129,510; 1,134,413
—, —, sodium chloride for, 1,149,653; 1,165,368; 1,466,626; 1,473,966; 1,502,129
—, —, sodium chloride as catalyst for, 1,315,534
—, —, sodium cyanamide (Na_2CN_2), for, 1,186,367
—, —, sodium cyanamide, catalyst contg., for, 1,352,174; 1,352,180; 1,352,181; 1,352,182
—, —, sodium cyanate for, 1,241,919; 1,241,920
—, —, sodium cyanide for, 1,138,191; 1,187,633; 1,241,919; 1,241,920; 1,295,262; 1,295,293; 1,312,116; 1,312,842; 1,313,312
—, —, sodium cyanide (Na_2CN), for, 1,186,367
—, —, sodium ferrite for, 1,206,155
—, —, sodium ferrocyanide for, 1,295,262; 1,295,293
—, —, sodium ferrocyanide, catalyst contg., for, 1,306,862
—, —, sodium hydroxide for, 1,138,191; 1,149,653; 1,156,606; 1,163,095; 1,187,633; 1,252,649; 1,313,312; 1,313,884; 1,313,885; 1,313,886; 1,415,280
—, —, sodium hydroxide, catalyst contg., for, 1,306,862
—, —, sodium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, sodium nitrate for, 1,165,368; 1,212,062
—, —, sodium oxalate, catalyst contg., for, 1,306,862
—, —, sodium oxide for, 1,129,510; 1,206,155; 1,415,280; 1,464,292
—, —, sodium oxide, catalyst contg., for, 1,306,862
—, —, sodium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, sodium salts for, 1,415,280; 1,417,702
—, —, sodium salts as catalyst promoter for, 1,148,570; 1,152,930
—, —, sodium silicate for, 1,198,965; 1,415,280; 1,466,626
—, —, sodium sulfate for, 1,149,653; 1,206,155; 1,315,534; 1,466,626
—, —, sodium sulfate (acid) for, 1,366,302; 1,366,303
—, —, sodium vanadate for, 1,415,280

Ammonia, mfr. of, starch for, 1,198,965
—, —, steam for, 1,148,570; 1,152,930; 1,163,095; 1,186,367; 1,188,770; 1,198,987; 1,204,789; 1,210,598; 1,237,485; 1,242,953; 1,390,200; 1,466,625; 1,487,521; 1,492,661; 1,498,031; 1,516,720; 1,517,870
—, —, steel for, 1,328,082
—, —, steel apparatus for, 1,188,530
—, —, straw for, 1,146,776
—, —, strontium as catalyst promoter for, 1,148,570; 1,152,930
—, —, strontium acetate for, 1,473,543
—, —, strontium carbonate for, 1,483,413
—, —, strontium cyanamide as catalyst for, 1,352,177; 1,352,179; 1,473,543
—, —, strontium ferricyanide as catalyst for, 1,454,599
—, —, strontium ferrocyanide as catalyst for, 1,454,599
—, —, strontium formate for, 1,473,543
—, —, strontium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, strontium oxalate for, 1,473,543
—, —, strontium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, strontium phenolate for, 1,473,543
—, —, strontium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, strontium tartrate for, 1,473,543
—, —, sulfate for, 1,206,155; 1,463,508
—, —, sulfide for, 1,156,606; 1,206,155; 1,503,319
—, —, sulfur for, 1,156,606; 1,330,435
—, —, sulfur as catalyst poison for, 1,148,570; 1,152,930
—, —, sulfur carbonitride (SCN), for, 1,123,584
—, —, sulfur compound as catalyst poison for, 1,148,570; 1,152,930
—, —, sulfur compound, effect of on, 1,184,839
—, —, sulfur dioxide for, 1,123,584; 1,326,045
—, —, sulfuric acid for, 1,123,584; 1,156,606; 1,415,280
—, —, sulfurous acid for, 1,326,045
—, —, synthetic, 1,359,097
—, —, tantalum as catalyst promoter for, 1,148,570; 1,152,930
—, —, tantalum hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, tantalum oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, tantalum salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, tar for, 1,123,763; 1,229,611; 1,251,954; 1,498,031
—, —, tellurium as catalyst poison for, 1,148,570; 1,152,930
—, —, tellurium compound as catalyst poison for, 1,148,570; 1,152,930
—, —, thallium in catalyst for, 1,495,655
—, —, thorium, catalyst contg., for, 1,495,655
—, —, thorium as catalyst promoter for, 1,148,570; 1,152,930
—, —, thorium acetate for, 1,473,543; 1,473,544
—, —, thorium carbide as catalyst for, 1,273,772
—, —, thorium carbonate for, 1,473,543; 1,473,544
Ammonia, mfr. of, thorium hydroxide for, 1,473,543; 1,473,544
—, —, thorium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, thorium nitride, ammonia made with, 1,473,543; 1,473,544
—, —, thorium oxalate for, 1,473,543; 1,473,544
—, —, thorium oxide for, 1,473,543; 1,473,544
—, —, thorium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, thorium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, thorium salt, organic, for, 1,473,543; 1,473,544
—, —, tin, catalyst contg., for, 1,495,655
—, —, tin as catalyst poison for, 1,148,570; 1,152,930
—, —, tin compound as catalyst poison for, 1,148,570; 1,152,930
—, —, titanium for, 1,198,965
—, —, titanium, palladium alloy contg., as catalyst for, 1,388,995
—, —, titanium carbide for, 1,123,763; 1,207,567
—, —, titanium carbide as catalyst for, 1,273,772
—, —, titanium carbonitride for, 1,417,702
—, —, titanium cyanamide as catalyst for, 1,473,543
—, —, titanium cyanide for, 1,123,763
—, —, titanium nitride for, 1,159,989; 1,417,702
—, —, titanium nitrogen compounds for, 1,391,147; 1,391,148
—, —, titanium oxide for, 1,123,763; 1,415,280; 1,417,702
—, —, triammonium potassium ferrocyanide as catalyzer in, 1,452,027
—, —, tungsten as catalyst for, 1,128,843; 1,244,580; 1,256,875
—, —, tungsten as catalyst promoter for, 1,148,570; 1,152,930
—, —, tungsten carbide as catalyst for, 1,128,843
—, —, tungsten hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, tungsten nitride as catalyst for, 1,128,843
—, —, tungsten oxide for, 1,278,580; 1,415,280
—, —, tungsten oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, tungsten salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, tungstic acid for, 1,278,580
—, —, uranium, catalyst contg., for, 1,495,655
—, —, uranium as catalyst for, 1,128,843; 1,252,726; 1,256,875
—, —, uranium as catalyst promoter for, 1,148,570; 1,152,930
—, —, uranium acetate for, 1,473,543; 1,473,544
—, —, uranium carbide as catalyst for, 1,128,843
—, —, uranium carbonate for, 1,473,543; 1,473,544
—, —, uranium hydroxide for, 1,473,543; 1,473,544
—, —, uranium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, uranium nitride, ammonia made with, 1,473,543; 1,473,544
—, —, uranium nitride as catalyst for, 1,128,843
—, —, uranium oxalate for, 1,473,543; 1,473,544
—, —, uranium oxide for, 1,473,543; 1,473,544

Ammonia, mfr. of, uranium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, uranium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, uranium salt, organic, for, 1,473,543; 1,473,544
—, —, vanadium, palladium alloy contg., as catalyst for, 1,388,995
—, —, vanadium as catalyst promoter for, 1,148,570; 1,152,930
—, —, vanadium carbide as catalyst for, 1,273,772
—, —, vanadium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, vanadium oxide for, 1,415,280
—, —, vanadium oxide as catalyst for, 1,516,720
—, —, vanadium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, vanadium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, vegetable matter for, 1,251,954
—, —, water for, 1,123,584; 1,129,504; 1,129,505; 1,129,721; 1,129,722; 1,134,411; 1,134,412; 1,134,413; 1,138,191; 1,148,570; 1,149,653; 1,152,930; 1,154,640; 1,159,989; 1,163,095; 1,172,863; 1,183,885; 1,237,485; 1,241,919; 1,241,920; 1,313,312; 1,315,532; 1,319,663; 1,390,200; 1,503,319
—, —, water, effect of on, 1,184,839
—, —, water as catalyst poison, 1,312,534; 1,313,315
—, —, water gas for, 1,204,789; 1,390,200
—, —, wood for, 1,146,776; 1,202,317; 1,251,954; 1,266,147
—, —, ytterbium as catalyst promoter for, 1,148,570; 1,152,930
—, —, ytterbium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, ytterbium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, ytterbium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, yttrium as catalyst promoter for, 1,148,570; 1,152,930
—, —, yttrium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, yttrium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, yttrium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, zinc for, 1,328,082
—, —, zinc, catalyst contg., for, 1,495,655
—, —, zinc as catalyst poison for, 1,148,570; 1,152,930
—, —, zinc carbonitride for, 1,134,411
—, —, zinc compound as catalyst poison for, 1,148,570; 1,152,930
—, —, zinc oxide for, 1,134,411
—, —, zirconium as catalyst promoter for, 1,148,570; 1,152,930
—, —, zirconium carbide as catalyst for, 1,273,772
—, —, zirconium dioxide for, 1,165,358
—, —, zirconium hydroxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, zirconium oxide for, 1,415,280
Ammonia, mfr. of, zirconium oxide as catalyst promoter for, 1,148,570; 1,152,930
—, —, zirconium salt as catalyst promoter for, 1,148,570; 1,152,930
—, —, *see also Ammonia, synthesis, of; Nitrogen, fixation of*
—, manure decomposition product, 1,410,249
—, mercury salicylate, albinic acid compounds prepared with, 1,391,154
—, metal hydroxide precipitated by, 1,337,192
—, metallic hydroxide precipitated by, 1,396,718
—, methylene diacetate and, hexamethylenetetramine from, 1,459,971
—, methylhexamethylenetetramine thiocyanate from, 1,336,709
—, *N*-methyl-*o*-toluenesulfonamide made with, 1,353,385
—, *N*-methyl-*p*-toluenesulfonamide made with, 1,353,385
—, *N*-methyl-xylenesulfonamides made with, 1,353,384; 1,353,385
—, milk analysis with, 1,391,965
—, molded article made with, 1,354,154; 1,370,666; 1,395,834; 1,397,144; 1,508,124
—, molybdenum, carbon, removal of from, using, 1,135,154
—, Mond gas, recovery from of, 1,239,969
—, motor fuel contg., 1,377,992
—, muffler, sealed package of made sterile using, 1,180,894
—, naphtha made with, 1,221,698
—, naphtha, solidified, made with, 1,484,190
—, 1-naphthol-8-sulfonamide made with, 1,503,172
—, natural gas, helium, separation of from using, 1,496,757
—, —, removal from of, apparatus for, 1,213,796
—, —, —, castor oil, sulfonated, for, 1,213,796
—, —, —, process for, 1,213,796
—, nickel made with, 1,204,843
—, nickel, catalyst, made with, 1,329,323
—, nickel catalyst prepared from nickel and, 1,327,396
—, nickel catalyst revivified with, 1,431,982
—, nitrates made with, 1,286,838; 1,288,754; 1,288,755; 1,288,756
—, nitric acid made with, 1,193,796; 1,193,797; 1,193,798; 1,193,799; 1,193,800; 1,206,062; 1,206,063; 1,217,247; 1,233,564; 1,237,884; 1,242,953; 1,252,976; 1,292,814; 1,309,622; 1,314,485; 1,315,534; 1,337,106; 1,347,158; 1,347,159; 1,347,160; 1,378,271; 1,400,912; 1,458,969; 1,487,647; 1,508,061; 1,517,870
—, nitric acid from catalyst for, 1,299,641; 1,379,387
—, —, ozone and, 1,400,912
—, —, process for, 1,321,376
—, nitrides made by heating oxides in, 1,337,264
—, nitroamines prepared with, 1,423,494
—, 2-nitro-aniline made with, 1,423,494
—, nitro-1.5-dihydroxynaphthalene dissolved by, 1,412,707
—, nitrogen made with, 1,253,534
—, nitrogen, hydrogen, separation from using, 1,496,757
—, —, —, mixture of and, made with, 1,123,394

Ammonia, nitrogen, separation from of, 1,261,900; 1,518,421
—, nitrogen chloride from, 1,367,530
—, nitrogen dioxide made with, 1,193,796; 1,193,797; 1,193,798; 1,193,799; 1,193,800; 1,237,884; 1,253,534; 1,508,061
—, nitrogen monoxide contg., impurity of, 1,315,354
—, nitrogen oxide made with, 1,173,524; 1,207,706; 1,207,707; 1,207,708; 1,211,394; 1,217,247; 1,222,928; 1,233,564; 1,239,125; 1,242,953; 1,252,976; 1,253,534; 1,270,989; 1,318,936; 1,357,000; 1,426,952; 1,458,969; 1,508,061; 1,512,225
—, —, process for, 1,304,707; 1,321,376
—, nitrogen tetroxide made with, 1,237,884; 1,253,534; 1,366,773; 1,508,061
—, nitrogen trichloride made with, 1,367,530; 1,510,132
—, nitrogen trioxide made with, 1,237,884; 1,253,534
—, nitrous acid made with, 1,193,796; 1,233,564; 1,237,884; 1,252,976; 1,458,969
—, nuts, oil from, made with, 1,209,723
—, oil made with, 1,462,576
—, oil, vegetables, made with, 1,209,723
—, oil contg., aluminum chloride, removal from of with, 1,311,987
—, oil desulfurized with, 1,423,710; 1,423,711; 1,423,712
—, oils emulsified with, 1,431,080
—, oils purified with, 1,365,894
—, oil gas, removal from of, apparatus for, 1,237,767
—, —, —, glycerol for, 1,237,767
—, —, —, process for, 1,237,767
—, oxidation catalytically of, method for, 1,452,145
—, —, oxygen for, 1,452,145
—, oxidation of, 1,388,995; 1,399,807; 1,426,952; 1,458,969
—, —, air for, 1,345,323
—, —, aluminate for, 1,322,291
—, —, aluminum apparatus for, 1,481,957
—, —, ammonia for, 1,322,291
—, —, ammonium nitrate from gases from, 1,330,136
—, —, apparatus for, 1,464,845; 1,481,957
—, —, asbestos for, 1,322,291
—, —, barium chromate for, 1,322,291
—, —, barium oxide for, 1,322,291
—, —, bismuth chromate for, 1,322,291
—, —, bismuth oxide as catalyst for, 1,318,936
—, —, calcium chromite for, 1,322,291
—, —, calcium oxide for, 1,322,291
—, —, calcium salt for, 1,322,291
—, —, catalyst for, 1,347,158; 1,347,160; 1,357,000; 1,458,969
—, —, catalyst activating materials for, 1,425,576
—, —, catalyst for, mfr. of, 1,425,576
—, —, —, —, process for, 1,345,323
—, —, —, palladium in, 1,388,995
—, —, —, preparing of, 1,399,807; 1,423,978
—, —, —, vanadium oxide as, 1,420,201
—, —, —, *see also Nitrogen oxides, mfr. of, catalyst for*
—, —, chromate for, 1,322,291
Ammonia, oxidation, chrom-alum for, 1,322,291
—, —, chromic acid as catalyst for, 1,318,936
—, —, chromite for, 1,322,291
—, —, chromium compound for, 1,322,291
—, —, chromium oxide for 1,322,291
—, —, clay for, 1,322,291
—, —, copper-manganese-silver alloy as catalyst for, 1,357,000
—, —, copper nitrate for, 1,322,291
—, —, copper oxide for, 1,322,291
—, —, copper oxide as catalyst for, 1,318,936
—, —, dolomite for, 1,322,291
—, —, ferrochromite for, 1,322,291
—, —, fire-brick for, 1,322,291
—, —, gases from, nitric acid prepared with, 1,433,969
—, —, hopcalite as catalyst for, 1,345,323
—, —, hydrozincite for, 1,322,291
—, —, iodine in material for, 1,321,061
—, —, iodine pentoxide in material for, 1,321,061
—, —, iridium for, 1,322,291
—, —, iridium ammonium chloride for, 1,322,291
—, —, iron compound for, 1,322,291
—, —, iron nitrate for, 1,322,291
—, —, iron oxide as catalyst for, 1,426,952
—, —, lead chromate for, 1,322,291
—, —, lead nitrate for, 1,322,291
—, —, lead oxide as catalyst for, 1,318,936
—, —, magnesite for, 1,322,291
—, —, magnesium carbonate for, 1,322,291
—, —, magnesium chromite for, 1,322,291
—, —, magnesium nitrate for, 1,322,291
—, —, magnesium oxide for, 1,322,291
—, —, magnesium salt for, 1,322,291
—, —, manganese compound for, 1,322,291
—, —, manganese nitrate for, 1,322,291
—, —, manganese(ic) oxide for, 1,322,291
—, —, meerschaum for, 1,322,291
—, —, metal oxide as catalyst for, 1,318,936
—, —, nickel for, 1,318,936
—, —, nickel alloy apparatus for, 1,481,957
—, —, nitric acid for, 1,370,867
—, —, nitrogen tetroxide for, 1,366,773
—, —, oxygen for, 1,345,323; 1,347,158; 1,378,271; 1,452,145
—, —, ozone for, 1,400,912
—, —, platinum for, 1,322,291
—, —, platinum ammoninum chloride for, 1,322,291
—, —, platinum catalyst for, 1,318,936; 1,347,158; 1,481,957
—, —, potassium bichromate for, 1,322,291
—, —, process for, 1,318,936; 1,321,376; 1,345,323; 1,481,957
—, —, pumice as catalyst carrier for, 1,481,957
—, —, regulating, process for, 1,304,707
—, —, rhodium as catalyst for, 1,366,773
—, —, ruthenium compound for, 1,322,291
—, —, silver for, 1,322,291
—, —, silver, colloidal, for, 1,322,291
—, —, silver chromate for, 1,322,291
—, —, silver nitrate for, 1,322,291
—, —, steam used in, 1,378,271
—, —, sulfuric acid, fuming in material for, 1,321,061

Ammonia, oxidation, temperature control apparatus for, 1,347,159
—, —, vanadic acid as catalyst for, 1,318,936
—, —, zinc oxide for, 1,322,291
—, —, zinc salt for, 1,322,291
—, —, zinc-spar for, 1,322,291
—, —, *see also Nitric acid, mfr. of; Nitrogen dioxide, mfr. of; Nitrous acid, mfr. of; Nitrogen oxide, preparation of*
—, oxidizing, catalyst for, 1,345,323
—, —, —, iron group metals as, 1,379,387
—, oxycellulose, waterproofing of using, 1,499,025
—, oxygen, action of with, 1,292,814; 1,309,622
—, paint made with, 1,127,831
—, paper made with, 1,500,500
—, paper, coated, made with, 1,141,951
—, —, lithographers, made with, 1,141,951
—, —, parchmentized, waterproofing of using, 1,499,025
—, —, sized, waterproofing of using, 1,499,025
—, —, unsized, waterproofing of using, 1,499,025
—, —, waterproofing of, using, 1,135,356; 1,499,025
—, paper de-inked with, 1,421,195
—, paper grease-proofed by, 1,449,718
—, paper mfr., waste liquor from, contg., 1,418,353
—, paper recovery process using, 1,396,227
—, paper tube made with, 1,135,356
—, paracoumarone made with, 1,389,791
—, partial oxidation of, apparatus for, 1,515,299
—, —, process for, 1,515,299
—, parting compound made with, 1,514,731
—, peanut oil made with, 1,209,723
—, peat, absorption by of, 1,277,155
—, petroleum, solidified, made with, 1,484,190
—, petroleum contg., aluminum chloride, removal from of with, 1,311,987
—, petroleum purified with, 1,315,623
—, petroleum refined using, 1,163,025
—, petroleum still gas contg., 1,498,781; 1,498,782
—, phenol aldehyde condensate made with, 1,125,906; 1,126,926; 1,135,340; 1,146,300; 1,187,230; 1,187,232; 1,188,014; 1,218,146; 1,225,748; 1,225,749; 1,225,750; 1,252,507; 1,253,261; 1,354,154; 1,370,666; 1,401,633; 1,401,953; 1,414,139; 1,462,771; 1,508,124
—, phenol aldehyde condensate made with formaldehyde and, 1,306,681
—, phenol-furaldehyde condensate made with, 1,377,519; 1,398,146; 1,398,147; 1,398,148
—, phonograph record made with, 1,398,146; 1,398,147; 1,398,148
—, phosphine, removal of from, carbon, impregnated, for, 1,519,470
—, —, —, process for, 1,519,470
—, phosphine as impurity in, 1,313,886
—, —, removal of, 1,318,936
—, phosphine removed from, 1,325,145
—, phosphoric acid neutralized by, 1,355,369; 1,367,846
—, photographic emulsion sensitized with dyes and, 1,391,310
—, phthalimide made with, 1,450,678
Ammonia, picoline made with, 1,274,998; 1,274,999; 1,421,743
—, pigment-oil composition prepared with, 1,431,079
—, plastic made with, 1,173,336; 1,180,902; 1,245,981; 1,397,144; 1,474,482; 1,482,929
—, potassium made with, 1,197,329
—, potassium, lead alloy contg., treatment of using, 1,197,329
—, potassium amide made with, 1,163,498; 1,197,329
—, potassium carbonate made with, 1,360,046
—, potassium chloride dissolved by anhydrous, 1,328,938
—, potassium compounds made with, 1,514,912
—, potassium cyanamide made with, 1,163,498
—, potassium cyanate made with, 1,144,457
—, potassium cyanide made with, 1,163,498
—, potassium cyanide solvent, 1,352,175
—, potassium derivatives made with, 1,204,234
—, potassium formate made with, 1,212,359
—, potassium nitrate made with, 1,507,993
—, potassium phosphate (KH_2PO_4), made with, 1,191,615
—, potassium salts recovered from brines with, 1,466,352
—, potassium sulfate precipitated by, 1,430,877; 1,466,352
—, power producing mixture contg., anhydrous, 1,417,047
—, preparation of, 1,366,303
—, preparation from calcium cyanamide, 1,359,097
—, preparation from vanadium nitride, 1,415,280
—, printing plate made with, 1,370,666; 1,377,519; 1,401,633; 1,442,173
—, producer gas, recovery from of, 1,239,969
—, producer gas contg., separation from of, apparatus for, 1,320,369
—, proteid, animal, hydrolyzed with, 1,323,951
—, proteids extracted with, 1,427,645
—, proteid product made with, 1,245,981
—, pure, mfr. of, calcium cyanamide and air for, 1,296,820
—, purification of, 1,366,303
—, —, apparatus for, 1,261,900
—, —, copper(ous) chloride for, 1,313,886
—, —, nickel for, 1,318,936
—, —, paraffin oil for, 1,313,886
—, —, process for, 1,261,900; 1,296,820; 1,313,886
—, purifying, catalyst for, 1,418,246
—, pyridine made with, 1,274,998; 1,274,999; 1,275,000
—, quinoline made with, 1,274,998; 1,274,999
—, ramie, waterproofing of using, 1,499,025
—, record, phonograph, made with, 1,370,666
—, recovery of, 1,291,729; 1,291,730; 1,375,475; 1,375,476; 1,375,477; 1,375,478; 1,420,613
—, —, absorbing agents for, 1,382,889; 1,382,890
—, —, apparatus for, 1,332,419; 1,455,299; 1,378,593
—, —, coke-oven gas for, 1,307,534; 1,307,571; 1,309,143
—, —, illuminating gas for, 1,309,143
—, —, process for, 1,332,419; 1,452,009

Ammonia, recovery of, producer gas for, 1,307,533; 1,307,571; 1,309,143
—, —, sodium bisulfate for, 1,332,419
—, —, sodium(acid) sulfate for, 1,332,419
—, recovery of from ammonium sulfate, 1,377,493
—, recovery of from coal gas, 1,349,393
—, recovery of from gas, 1,375,476; 1,375,477; 1,375,478; 1,375,483; 1,375,484; 1,375,485
—, recovery of from tar, 1,375,475
—, recovery from artificial silk denitration liquors, 1,390,329
—, recovery from coke oven by-products, 1,457,877
—, recovery from coking gases, 1,405,629
—, recovery from distillate gases, 1,408,105
—, recovery from gases, lignite for, 1,459,703
—, —, peat for, 1,459,703
—, recovery from gilsonite distillation products, 1,459,328
—, recovery from salammoniac skimmings, 1,403,060
—, refrigerant, 1,497,615
—, refrigerating apparatus using, 1,512,623
—, refrigerating composition contg., 1,345,144
—, refrigeration by, process for, 1,246,866; 1,325,665; 1,325,666; 1,325,667; 1,383,246
—, refrigerator made with, 1,506,530
—, removing from gas, 1,332,529
—, residual liquor from distillation of, purifying, 1,428,618
—, resin, artificial, made with, 1,389,791
—, resin dissolved by, 1,431,080
—, retting liquors as source of, 1,344,719
—, roasted starch and, defluocculating agent, 1,456,112
—, rosin saponified by, 1,354,575; 1,401,348
—, rosin soap of, 1,401,348
—, rubber, synthetic, made with, 1,238,930; 1,248,888
—, —, vulcanization of, using, 1,238,236; 1,323,951
—, —, —, accelerator for, made with, 1,471,213
—, rubber latex inhibited from coagulating by, 1,411,786
—, rubber-like substance made with, 1,415,468
—, rubber substitute made with, 1,159,257; 1,159,258; 1,180,902
—, rust prevented from forming by, 1,395,730
—, sand colored using, 1,233,501
—, saturator for, 1,331,784
—, seeds, oil from, made with, 1,209,723
—, seed coating for contg., 1,319,157
—, sensitizing composition contg., 1,383,620
—, shellac substitute made with, 1,482,929
—, shoe-dressing contg., 1,370,819
—, silicon, steel alloy contg., hardening of, using, 1,487,554
—, silicon hydride as impurity in, 1,313,886
—, silk, artificial, made with, 1,501,206
—, —, —, cellulose nitrate, denitration waste liquor from, contg., 1,490,728
—, —, —, waterproofing of using, 1,499,025
—, sludge sulfonic acid tar treated with, 1,271,387
—, smelter fume, treatment of, using, 1,496,410
—, smoke clouds produced with, 1,433,732
Ammonia, soap made with, 1,414,227; 1,414,311
—, sodamide made with, 1,163,498; 1,197,329; 1,198,987; 1,359,080
—, sodium made with, 1,197,329
—, sodium, lead alloy contg., treatment of using, 1,197,329
—, sodium amide made with, 1,148,194
—, sodium bicarbonate made with, 1,138,191; 1,249,739; 1,352,211; Re-15,314; 1,359,097; 1,484,932; 1,488,002; 1,491,672; 1,492,661
—, —, sodium chloride with, 1,359,097
—, sodium carbonate made with, 1,138,191; 1,359,097; 1,484,932; 1,491,672
—, sodium chloride, sodium sulfate, separation of from using, 1,496,152; 1,496,257
—, sodium cyanamide made with, 1,160,811; 1,163,498; 1,311,231
—, sodium cyanamide (Na_2CN_2), made with, 1,186,367
—, sodium cyanide made with, 1,160,811; 1,163,498; 1,256,272; 1,311,231; 1,352,175
—, sodium cyanide solvent, 1,352,175
—, sodium cyanide as source of, 1,358,161
—, sodium derivatives made with, 1,204,234
—, sodium fluoride made with, 1,464,990; 1,464,991; 1,511,560; 1,511,561
—, sodium fluoride, sodium sulfate, double salt of and, made with, 1,511,560
—, sodium formate made with, 1,212,359
—, sodium hyposulfite, anhydrous, made with, 1,156.107
—, sodium nitrate from, 1,458,969
—, sodium nitrite made with, 1,253,534
—, sodium sulfate, sodium chloride, separation of from using, 1,496,152; 1,496,257
—, sodium sulfate precipitated by, 1,466,352
—, soldering flux contg., alcohol, rosin and, 1,359,010
—, solvent for, ammonium nitrate in, 1,267,772
—, —, glycerol in, 1,267,772
—, —, gums in, 1,353,599
—, —, water in, 1,267,772
—, spent, refrigeration process using, 1,519,353
—, spirits of, cement made with, 1,270,477
—, —, glue made with, 1,270,477
—, —, plate, lithographic, made with, 1,185,506
—, —, wood finishing composition contg., 1,279,878
—, starch, waterproofing of using, 1,499,025
—, starch ethers prepared with, 1,350,820
—, steel alloy, aluminum in, hardening of, using, 1,487,554
—, —, chromium in, hardening of, using, 1,487,554
—, —, manganese in, hardening of, using, 1,487,554
—, —, silicon in, hardening of, using, 1,487,554
—, steel alloy hardening of using, 1,487,554
—, stereotype matrix made with, 1,233,298
—, still for, 1,379,939
—, straw, retted, treated with, 1,374,941
—, —, waterproofing of using, 1,499,025
—, sugar beet seed coating for contg., 1,319,157
—, sulfonamides, alkyl prepared with, 1,454,959; 1,454,960; 1,454,961

Ammonia, sulfur made with, 1,127,219; 1,133,086; 1,479,852
—, sulfur as impurity in, removal of, 1,318,936
—, sulfur dioxide, absorbed by, 1,425,578
—, sulfur dioxide gases, treatment of, using, 1,496,410
—, sulfur trioxide gases, treatment of, using, 1,496,410
—, sulfuric acid made with, 1,133,086; 1,173,524
—, sulfuric acid as absorbent for, 1,291,729
—, sulfuric acid in bristle bleaching neutralized by, 1,412,755
—, sulfuric acid neutralized with, 1,353,220
—, sulfuric acid for resin made neutralized by, 1,389,791
—, sweater, sealed package of made sterile using, 1,180,894
—, synthesis of, 1,333,404; 1,337,903; 1,352,179; 1,363,392; 1,363,393; 1,386,760; 1,388,995; 1,396,557; 1,408,625; 1,441,693; 1,447,123; 1,454,599
—, —, apparatus for, 1,329,397; 1,371,299; 1,408,987
—, —, catalyst for, 1,352,177; 1,352,178; 1,352,179; 1,363,392; 1,363,393; 1,388,995; 1,454,591
—, —, —, barium ferricyanide as, 1,454,599
—, —, —, barium ferrocyanide as, 1,454,599
—, —, —, calcium ferricyanide for, 1,454,599
—, —, —, calcium ferrocyanide as, 1,454,599
—, —, —, cyanamides as, 1,454,599
—, —, —, cyanides as, 1,454,599
—, —, —, formula, sodium cyanamide 100, manganese cyanamide 10, cobalt cyanamide 10, charcoal 80, 1,352,180; 1,352,181; 1,352,182
—, —, —, molybdenum-iron for, 1,386,555
—, —, —, palladium nickel alloy as, 1,388,995
—, —, —, potassium ferricyanide as, 1,454,599
—, —, —, potassium ferrocyanide as, 1,454,599
—, —, —, preparing of, 1,423,978; 1,439,291; 1,439,292
—, —, —, regenerating, 1,454,599
—, —, —, strontium ferricyanide as, 1,454,599
—, —, —, strontium ferrocyanide as, 1,454,599
—, —, catalytic furnace for, 1,335,891
—, —, cyanide for, 1,441,695
—, —, gases for, drying, 1,454,594
—, —, —, preparation of, 1,425,577; 1,425,579
—, —, —, purifying, 1,403,391; 1,436,949
—, —, gas mixture suitable for, preparing, 1,390,200
—, —, high pressure used in, 1,332,460
—, —, hydrogen for, preparing, 1,425,578
—, —, hydrogen obtained from water-gas for, 1,352,211; Re-15,314
—, —, metals used in, 1,396,557
—, —, nitrogen-hydrogen mixtures for, preparing, 1,327,029
—, —, preparing gases for, 1,376,514
—, —, preparing mixtures of hydrogen and oxygen for, 1,349,756
—, —, sodamide used to purify gases for, 1,337,903
—, —, *see also Nitrogen, fixation of*
—, synthetic, barium ferrocyanide in mfr. of, 1,452,027
—, —, ferriferrocyanide in mfr. of, 1,452,027
Ammonia, synthetic, ferropotassium ferrocyanide in mfr. of, 1,452,027
—, —, iron cyanide in mfr. of, 1,452,027
—, —, mfr. of, 1,452,027
—, —, —, barium ferrocyanide as catalyzer in, 1,452,027
—, —, —, ferropotassium ferrocyanide as catalyzer in, 1,452,027
—, —, —, iron cyanide as catalyzer in, 1,452,027
—, —, —, potassium ferroferrocyanide as catalyser in, 1,452,027
—, —, —, triammonium potassium ferrocyanide as catalyzer in, 1,452,027
—, —, triammonium potassium ferrocyanide in mfr. of, 1,452,027
—, tantalum, carbon, removal of from, using, 1,135,154
—, tetrachloroethane to trichloroethylene by, 1,343,716
—, therapeutic compound made with, 1,226,394
—, thionamic acid made with, 1,496,410
—, thiourethane made with, 1,491,021
—, thorium nitrate decomposed with, 1,436,359
—, thread made with, 1,180,902
—, titanium nitride made with, 1,337,264
—, titanium nitrogen compounds made with, 1,391,147
—, tobacco, removal from of, apparatus for, 1,178,487
—, —, —, process for, 1,178,487
—, toluene, solidified, made with, 1,484,190
—, *o*-toluene diethyl sulfonamide prepared with, 1,454,959; 1,454,960; 1,454,961
—, *o*-toluene dimethyl sulfonamide prepared with, 1,454,959; 1,454,960; 1,454,961
—, *o*-toluene methylethyl sulfonamide prepared with, 1,454,959; 1,454,960; 1,454,961
—, *p*-toluene diethyl sulfonamide prepared with, 1,454,959; 1,454,960; 1,454,961
—, *p*-toluene dimethyl sulfonamide prepared with, 1,454,959; 1,454,960; 1,454,961
—, *p*-toluene methyl ethyl sulfonamide prepared with, 1,454,959; 1,454,960; 1,454,961
—, tonka bean extract made with, 1,515,714
—, triacetone amine made with, 1,473,285
—, triacetone diamine made with, 1,473,285
—, triammonium potassium ferrocyanide in mfr. of, 1,452,027
—, trichlor-ethylene made with, 1,343,716
—, trichlorethylene made from tetrachlorethane by, 1,343,716
—, triethyltrimethylenetriamine made with, 1,471,213
—, tungsten made with, 1,130,197
—, tungsten, carbon, removal of from using, 1,135,154
—, tungsten amide from, 1,352,176
—, tungsten filament made with, 1,191,552
—, tungsten oxide, blue, made with, 1,130,197
—, turpentine, solidified, made with, 1,484,190
—, type matrix made with, 1,233,298
—, underwear, sealed package of made sterile using, 1,180,894
—, urea made with, 1,344,673; 1,429,483; 1,429,953
—, urea-formaldehyde condensate made with, 1,458,543

Ammonia, urea-formaldehyde condensing agent, 1,458,543
—, vanadium, carbon, removal of from, using, 1,135,154
—, vanilla bean extract made with, 1,515,714
—, varnish made with, 1,137,374; 1,159,257; 1,159,258; 1,187,231; 1,218,146; 1,354,154; 1,389,791; 1,431,080; 1,436,820; 1,482,929
—, varnished leather dried by ultra-violet rays and, 1,353,937
—, vegetable fibers treated with, 1,400,380
—, viscose made with, 1,173,336
—, vulcanization accelerator made with, 1,417,970; 1,503,113
—, vulcanization process using, 1,503,113
—, vulcanizing accelerator made with, 1,473,285
—, water absorption by of, apparatus for demonstrating, 1,338,967
—, water gas, hydrogen, separation of from using, 1,496,757
—, —, removal from of, apparatus for, 1,237,767
—, —, —, glycerol for, 1,237,767
—, —, —, process for, 1,237,767
—, water Japan contg., 1,357,688
—, waterproofing made with, 1,135,356; 1,180,902
—, whale oil, by hydrogenation of, catalyst for, made with, 1,159,480
—, wick, non-combustible, made with, 1,207,160
—, wood, artificial, made with, 1,397,144
—, —, seasoning of, using, 1,210,491
—, —, treatment of using, 1,186,604
—, —, waterproofing of using, 1,499,025
—, xylene diethyl sulfonamide prepared with, 1,454,959; 1,454,960; 1,454,961
—, xylene methylethyl sulfonamide prepared with, 1,454,959; 1,454,960; 1,454,961
—, "xylium" made with, 1,175,422
—, "xylosca" made with, 1,175,422
—, "xylozo" made with, 1,175,422
—, yeast made with, 1,449,111; Re-15,716
—, yeast food, 1,434,462
—, yield of from gas producers, increasing, 1,360,117
—, zinc made with, 1,204,843
—, zirconium nitride made with, 1,337,264
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Ammonia-air mixture, formation of, apparatus for, 1,307,739
Ammonia alum, see Aluminum ammonium sulfate
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Ammoniac, blood product made with, 1,380,427
—, crude, ammonia recovered from, calcium hydroxide for, 1,253,571
—, —, —, process for, 1,253,571
—, —, calcium ferrocyanide made with, 1,253,571
—, —, composition of, 1,253,571
—, —, formation of, gas purification, 1,253,571
—, —, —, illuminating gas purification, 1,253,571
—, —, Prussian blue from, 1,253,571
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—, food product made with, 1,380,427
—, match head made with, 1,144,077
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Ammoniacal gas liquor, ammonium chloride made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, carbon, decolorizing, made with, 1,479,851
—, cryolite, synthetic, made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, hydrochloric acid made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
Ammoniacal liquors, ammonia made with, 1,324,979
—, gas purifying sponge contg., 1,398,613
Ammoniacal solution see Ammonium hydroxide
Ammoniacal tar carbon decolorizing, made with, 1,359,094; 1,479,851
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Ammonia compound, ammonium nitrate made with, 1,315,534
—, ammonium sulfate made with, 1,315,534
—, mfr. of, calcium carbide for, 1,315,534
—, —, calcium fluoride as catalyst for, 1,315,534
—, —, calcium oxide for, 1,315,534
—, —, carbide for, 1,315,534
—, —, carbon for, 1,315,534
—, —, chloride as catalyst for, 1,315,534
—, —, coal for, 1,315,534
—, —, coke for, 1,315,534
—, —, cyanamide for, 1,315,534
—, —, cyanide for, 1,315,534
—, —, "dimetal isocyanide" for, 1,315,534
—, —, fluoride as catalyst for, 1,315,534
—, —, isocyanide for, 1,315,534
—, —, lime for, 1,315,534
—, —, nitride for, 1,315,534
—, —, process for, 1,315,534
—, —, sodium carbonate for, 1,315,534
—, —, sodium chloride as catalyst for, 1,315,534
—, —, sodium sulfate for, 1,315,534
Ammonia derivatives, phenol aldehyde condensate made with, 1,146,300
Ammonia dynamite, see Dynamite, ammonia
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Ammonia inhalant ampule, mfr. of, basic fuchsine for, 1,516,454
—, —, process for, 1,516,454
Ammonia liquor, ammonium salts neutralized with, 1,346,106
—, evaporating, 1,455,299
—, purifying of, benzene for, 1,346,106
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Ammonia salts, glue made with, 1,405,741
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Ammonia soap, lubricating compound contg., 1,414,227; 1,414,311
Ammonia soda process, barium carbonate made by liquors from, 1,444,623
—, brine purified for, 1,475,563
—, improvements in, 1,359,097
—, sodium bicarbonate made with, 1,138,191
—, sodium carbonate made with, 1,138,191
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Ammonia soda process lime mud, calcium oxide made with, 1,249,739
—, fertilizer made with, 1,249,739

Ammonia-still, 1,379,939
—, waste liquor from, phenols removal from, bacteria for, 1,437,401
—, —, purifying, bacteria for, 1,437,394
Ammonia still waste, calcium sulfide removed from process for, 1,323,239; 1,323,251; 1,323,256
—, copper(ous) thiocyanate from, process for, 1,323,239; 1,323,251; 1,323,256
—, ferrocyanide recovered from, process for, 1,323,239; 1,323,251; 1,323,256
—, purification of, animal charcoal for, 1,323,239
—, —, blast furnace slags for, 1,323,239; 1,323,251; 1,323,256
—, —, copper(ic) sulfate for, 1,323,239; 1,323,251; 1,323,256
—, —, iron oxide for, 1,323,239; 1,323,251; 1,323,256
—, —, iron(ous) salt for, 1,323,239; 1,323,251; 1,323,256
—, —, iron(ous) sulfate for, 1,323,239; 1,323,251; 1,323,256
—, —, lignite for, 1,323,251
—, —, peat for, 1,323,251; 1,323,256
—, —, process for, 1,323,239; 1,323,251; 1,323,256
—, sulfides, removed from, process for, 1,323,239; 1,323,251; 1,323,256
Ammonia synthesis autoclave, construction of, 1,463,280
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Ammoniated ethylic aldehyde, see Aldehyde ammonia
Ammoniated mercury, see White precipitate
Ammoniated water, see Ammonium hydroxide
Ammonia urea compounds, rubber-like substance made with, 1,415,468
Ammonia water, see Ammonium hydroxide
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Ammonio-magnesium phosphate, see Ammonium magnesium phosphate
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Ammonium, ammonium nitrate made with, 1,511,561
—, *copper compound, see Copper-ammonium compound*
—, mfr. of, ammonium chloride for, 1,499,001
—, —, carbon monoxide, effect of on, 1,184,839
—, —, lime for, 1,499,001
—, —, water for, 1,261,526
—, sodium carbonate precipitated by, 1,466,352
—, starch, nitrated, decomposition of in soil accelerated by, 1,410,037
Ammonium abietate, rosin made with, 1,511,461
Ammonium acetate, ammonium phosphate ($(NH_4)_2HPO_4$), made with, 1,251,742
—, —, ($(NH_4)_3PO_4$), made with, 1,251,742
—, ammonium silicate made with, 1,270,093
—, battery, storage, electrode for, made with, 1,175,954
—, blue print paper made with, 1,500,433
—, brass etching of, electrolytic contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, calcium acetate made with, 1,360,046
—, catalyst, urea made with, 1,292,019
Ammonium acetate, China grass, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, 4-chlor-2.6-dinitro-aniline made with, 1,423,494
—, 4-chlor-2.6-dinitro-*m*-phenylenediamine made with, 1,423,494
—, 2-chlor-4-nitro-aniline made with, 1,423,494
—, 4-chlor-2-nitro-aniline made with, 1,423,494
—, chrome yellow made with, 1,484,088
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, cotton, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, detergent made with, 1,241,043
—, 4.5-dichlor-2-nitro-aniline made with, 1,423,494
—, 2.4-dinitro-aniline made with, 1,423,494
—, 4.6-dinitro-*m*-phenylenediamine made with, 1,423,494
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, electrolyte for iron purification contg., 1,420,128; 1,420,129
—, ethyl alcohol, denatured, made using, 1,176,150; 1,176,462
—, fabric, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, feathers, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, fertilizer made with, 1,251,742
—, fiber, animal, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, —, vegetable, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, finish remover made with, 1,147,852; 1,167,641
—, flax, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, formation of, 1,360,046
—, fur, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, furniture polish contg., 1,350,537
—, hair, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, hemp, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, jute, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, Lalande, depolarizer for contg., 1,468,234
—, lead, electrodeposition of on iron using, 1,475,973
—, lead chromate made with, 1,484,088
—, liquid gloss contg., 1,376,038
—, mfr. of, wood for, 1,176,150; 1,176,462
—, nickel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, nitroamines prepared with, 1,423,494
—, 2-nitro-aniline made with, 1,423,494
—, photographic material hardened with, 1,424,062
—, pigment made with, 1,484,088
—, polish made with, 1,376,038
—, preparation of, 1,423,494
—, ramie, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, rhea, dyeing with sulfur dye of using, 1,181,905; 1,181,906

Ammonium acetate, silicic acid made with, 1,270,093
—, silk, artificial, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, —, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, soap, laundry, made with, 1,241,043
—, steel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, wood, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Ammonium acid salt, celluloid substitute made with, 1,280,862
Ammonium acid sulfate, see Ammonium bisulfate
Ammonium alginate, battery, storage, electrode for, made with, 1,508,732
—, cardboard coated with, 1,162,926
—, cattle feed made with, 1,515,968
—, fabric coated with, 1,162,926
—, leather coated with, 1,162,926
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—, properties of, 1,162,926
—, textile coated with, 1,162,926
Ammonium alkali, paper sizing with, 1,317,619
Ammonium alum, see Alum, ammonium
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Ammonium aluminate-silicate, catalyst, nickel aluminate-silicate made with, 1,256,032
Ammonium aluminum compounds, see Aluminum ammonium compounds
Ammonium aluminum sulfate, see Aluminum ammonium sulfate
Ammonium-*p*-aminophenylenedithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Ammonium arsenate, condenser electrolyte, 1,255,391
—, lightning arrester electrolyte, 1,255,391
—, rectifier electrolyte, 1,255,391
Ammonium arsenite, condenser electrolyte, 1,255,391
—, lightning arrester electrolyte, 1,255,391
—, rectifier electrolyte, 1,255,391
Ammonium benzyldithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Ammonium benzyl citrate, antispasmodic, 1,485,377
—, mfr. of, process for, 1,485,377
Ammonium benzyl malonates, antispasmodic, 1,485,377
—, mfr. of, process for, 1,485,377
Ammonium benzyl phosphates, antispasmodic, 1,485,377
—, mfr. of, process for, 1,485,377
Ammonium benzyl phthalate, antispasmodic, 1,485,377; 1,485,378
—, mfr. of, alcohol for, 1,483,377; 1,485,378
—, —, ammonium carbonate for, 1,485,377; 1,485,378
—, —, ammonium hydroxide for, 1,485,377; 1,485,378
Ammonium benzyl phthalate, antispasmodic, benzyl phthalate for, 1,485,377; 1,485,378
—, —, process for, 1,485,377; 1,485,378
Ammonium benzyl succinate, antispasmodic, 1,485,377; 1,485,379
—, mfr. of, acetone for, 1,485,377; 1,485,379
—, —, alcohol for, 1,485,377; 1,485,379
—, —, ammonium carbonate for, 1,485,377; 1,485,379
—, —, ammonium hydroxide for, 1,485,377; 1,485,379
—, —, benzyl succinate for, 1,485,377; 1,485,379
—, —, process for 1,485,377; 1,485,379
Ammonium benzyl sulfates, autispasmodic, 1,485,377
—, mfr. of, process for, 1,485,377
Ammonium benzyl tartrates, antispasmodic 1,485,377
—, mfr. of, process for, 1,485,377
Ammonium bicarbonate, adhesive, fireproof, made with, 1,248,092
—, alkaline earth carbonate made with, 1,378,595
—, ammonium chloride made with, 1,488,002
—, ammonium cyanate made with, 1,221,506; 1,241,919; 1,241,920
—, ammonium nitrate made with, 1,304,932; 1,314,534
—, ammonium phosphate $(NH_4)_3PO_4$, made with, 1,252,318
—, ammonium sulfate made with, 1,315,534
—, barium carbonate made with, 1,378,595
—, benzene, hydrocarbon, napthene, separation of from using, 1,520,953
—, —, —, paraffin, separation of from using, 1,520,953
—, —, —, saturated, separation of from using, 1,520,953
—, —, naphtha, petroleum, separation of from using, 1,520,953
—, calcium carbonate made with, 1,252,318
—, calcium chloride made with, 1,262,939
—, calcium phosphate, acid, made with, 1,252,318
—, —, $(Ca(H_2PO_4)_2)$, made with, 1,252,318
—, cement contg., 1,456,667
—, condenser, electrolytic, made with, 1,412,513
—, dinitroglycol made with, 1,426,313
—, electrolyte for lightning arresters, 1,412,513
—, fire extinguisher made with, 1,248,092; 1,276,742; 1,278,716; 1,306,707; 1,306,708
—, fire extinguisher composition contg., 1,393,236; 1,393,237
—, fireproofing made with, 1,248,092; 1,276,742
—, formation of, 1,398,135
—, —, ammonium hydroxide and carbon dioxide for, 1,304,932
—, freezing point of, effect of glycerol on, 1,306,708
—, —, effect of potassium lactate on, 1,306,707
—, —, effect of sodium lactate on, 1,306,707
—, hydrocarbon, aromatic, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, —, paraffin, separation of from using, 1,520,953
—, —, —, —, saturated, separation of from using, 1,520,953

Ammonium bicarbonate, hydrocarbon, aromatic, naphtha, petroleum, separation of from using, 1,520,953
—, —, —, naphthene, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xlyene, separation of from using, 1,520,953
—, —, paraffin, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using 1,520,953
—, —, saturated, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toulene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using,
—, —, unsaturated, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, —, paraffin, separation of from using, 1,520,953
—, —, —, —, saturated, separation of from using, 1,520,953
—, —, —, naphtha, petroleum, separation of from using, 1,520,953
—, insulating composition contg., 1,456,667
—, insulation, heat, made with, 1,228,609; 1,456,667
—, lightning arrester, electrolytic, made with, 1,412,513
—, magnesium carbonate (basic), made with, 1,228,609
—, mfr. of, ammonia for, 1,211,393
—, —, calcium carbide for, 1,315,534
—, —, calcium fluoride as catalyst for, 1,315,534
—, —, calcium oxide for, 1,315,534
—, —, carbide for, 1,315,534
—, —, carbon for, 1,315,534
—, —, carbon dioxide for, 1,211,393
—, —, chloride as catalyst for, 1,315,534
—, —, coal for, 1,315,534
—, —, coke for, 1,315,534
—, —, cyanamide for, 1,315,534
—, —, cyanide for, 1,315,534
—, —, "dimetal isocyanide" for, 1,315,534
—, —, fluoride as catalyst for, 1,315,534
—, —, hydrocarbon for, 1,211,393
—, —, hydrocarbon, benzene, for, 1,211,393
—, —, isocyanide for, 1,315,534
—, —, lime for, 1,315,534
—, —, nitride for, 1,315,534
—, —, petroleum for, 1,211,393
Ammonium bicarbonate, mfr. of, process for, 1,211,393; 1,294,526; 1,315,534
—, —, sodium carbonate for, 1,315,534
—, —, sodium chloride as catalyst for, 1,315,534
—, —, sodium sulfate for, 1,315,534
—, —, water for, 1,211,393
—, naphtha, petroleum, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using, 1,520,953
—, nitrogen fixation process using, 1,221,506
—, oil washed with, 1,438,764
—, paint, fireproof, made with, 1,248,092
—, paper, fireproof sizing for, made with, 1,248,092
—, photographic material hardened with, 1,424,062
—, potassium bicarbonate made with, 1,221,506; 1,241,919; 1,241,920
—, potassium silicofluoride decomposed by, 1,355,794
—, properties of, 1,444,623
—, rectifier, electrolytic, made with, 1,412,513
—, shoe filler made with, 1,227,696
—, sodium bicarbonate made with, 1,221,506; 1,303,167; 1,488,002
—, sodium bicarbonate from sodium chloride and, 1,312,782; 1,312,783; 1,312,784
—, starch, fireproof, made with, 1,248,092
—, stone, artificial, made with, 1,456,667
—, tanning compound made with, 1,443,697
—, 3.5.3'.5'-tetramino-4.4'-di(methylamino)-arsenobenzene, action on of, 1,265,864; 1,265,865
—, 3.5.3'.5'-tetramino-2.2'-dibrom-4.4'-(di-methylamino)-arseno-benzene, action on of, 1,265,865
—, 3.5.3'.5'-tetramino-2.2'-dichlor-4.4'-di-(methylamino)-arsenobenzene, action on of, 1,265,865
—, 3.5.3'-5'-tetramino,2.4.2'-4'-tetra(methyl-amino)-arseno-benzene action on of, 1,265,865
—, 3.5.3'-5'-tetramino-2.2'-6.6'-tetrachlor-4.4'-di(methylamino)-arsenobenzene, action on of, 1,265,865
—, toluene, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, paraffin, separation of from using, 1,520,953
—, —, —, saturated, separation of from using, 1,520,953
—, —, naphtha, petroleum, separation of from using, 1,520,953
—, urea, made with, 1,173,550; 1,221,506; 1,241,919; 1,241,920; 1,344,673; 1,453,069
—, varnish, fireproof, made with, 1,248,092
—, xylene, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, paraffin, separation of from using, 1,520,953.
—, —, —, saturated, separation of from using, 1,520,953

Ammonium bicarbonate, xylene, naphtha, petroleum, separation of from using, 1,520,953
Ammonium bichromate, airplane covering made with, 1,497,167
—, albumin light-sensitized with, 1,329,088
—, anthracene, catalyst for the oxidation of, made with, 1,486,781
—, antifreeze mixture contg., 1,405,320
—, benzaldehyde, catalyst for the mfr. of, made with, 1,486,781
—, benzoic acid, catalyst for the mfr. of, made with, 1,486,781
—, brass, etching of with, 1,276,599
—, carbon monoxide, hydrogen, removal from of, catalyst for, made with, 1,366,176
—, copper, etching of with, 1,276,599
—, catalyst (for benzaldehyde mfr.), made with, 1,486,781
—, —, (for benzoic acid mfr.), made with, 1,486,781
—, —, (for hydroxy-benzoic acid mfr.), made with, 1,486,781
—, —, (for *p*-nitro-benzaldehyde mfr.), made with, 1,486,781
—, —, (for *p*-nitro-benzoic acid mfr.), made with, 1,486,781
—, —, (for phthalic acid mfr.), made with, 1,486,781
—, —, (for salicylic acid mfr), made with, 1,486,781
—, —, (for sulfur trioxide mfr.), made with, 1,204,141; 1,204,142; 1,204,143
—, —, (for sulfuric mfr.), made with, 1,205,142; 1,227,044
—, —, for the oxidation of anthracene, made with, 1,486,781
—, —, for the oxidation of cresols, made with, 1,486,781
—, —, for the oxidation of cumene, made with, 1,486,781
—, —, for the oxidation of cymene, made with, 1,486,781
—, —, for the oxidation of mesitylene, made with, 1,476,781
—, —, for the oxidation of naphthalene, made with, 1,486,781
—, —, for the oxidation of toluene, made with, 1,486,781
—, —, for the oxidation of xylene, made with, 1,486,781
—, catalyst prepared from, 1,366,176
—, cresols, catalyst for the oxidation of, made with, 1,486,781
—, cumene, catalyst for the oxidation of, made with, 1,486,781
—, cymene, catalyst for the oxidation of, made with, 1,486,781
—, gelatin plate sensitizer, use of, 1,453,259
—, gelatin sensitized with, 1,376,652
—, hydrogen, carbon monoxide, removal of from, catalyst for, made with, 1,366,176
—, hydroxy-benzoic acid, catalyst for the mfr. of, made with, 1,486,781
—, leather, tanning of using, 1,167,951
—, lighter-wick impregnated with, 1,430,543
—, mesitylene, catalyst for the oxidation of, made with, 1,486,781
Ammonium bichromate, metal, etching of with, 1,276,599
—, naphthalene, catalyst for the oxidation of, made with, 1,486,781
—, *p*-nitro-benzaldehyde, catalyst for the mfr. of, made with, 1,486,781
—, *p*-nitro-benzoic acid, catalyst for the mfr. of, made with, 1,486,781
—, photoengraving process using, 1,285,015
—, photograph, colored, made with, 1,248,139
—, photographic print, color, made with, 1,263,962
—, photography, color, using, 1,128,389; 1,278,161
—, —, —, process for, using, 1,191,034
—, phthalic acid, catalyst for the mfr. of, made with, 1,486,781
—, plate, key, made with, 1,325,890
—, —, lithographic, made with, 1,185,506; 1,325,890
—, —, photographic, made with, 1,285,015
—, —, press, made with, 1,325,890
—, —, printing with, 1,276,599
—, printing, aluminum base for, grain screen for, made with, 1,265,641
—, —, copper base for, grain screen for, made with, 1,265,641
—, —, lithographic, grain screen for, made with, 1,265,641
—, —, intaglio, grain screen for, made with, 1,265,641
—, —, stone base for, grain screen for, made with, 1,265,641
—, —, zinc base for, grain screen for, made with, 1,265,641
—, printing plate made with, 1,219,332; 1,243,431; 1,245,120; 1,433,806; 1,453,259; 1,496,268
—, printing plate, grain screen for, made with, 1,265,641
—, —, half-tone, made with, 1,154,643; 1,507,049
—, —, lithographic, made with, 1,203,770
—, —, photochemical, made with, 1,155,186
—, salicylic acid, catalyst for the mfr. of, made with, 1,486,781
—, sensitizing gelatin with, 1,433,806
—, steel, etching of with, 1,276,599
—, sulfuric acid, catalyst for the mfr. of, made with, 1,204,142; 1,227,044
—, sulfur trioxide, catalyst, for the mfr. of, made with, 1,204,141; 1,204,142; 1,204,143; 1,227,044
—, toluene, catalyst for the oxidation of, made with, 1,486,781
—, wood preservative cont., 1,265,370
—, xylene, catalyst for the oxidation of, made with, 1,486,781
—, zinc, etching of with, 1,276,599
Ammonium bifluoride, cleaner, metal, contg., 1,471,466
—, formation of, 1,426,890; 1,426,891
—, glass, etching of, paste for contg., 1,471,466
—, mfr. of, ammonia for, 1,235,552
—, —, apatite for, 1,235,552
—, —, bone for, 1,235,552
—, —, fluosilicic acid for, 1,235,552
—, —, hydrofluoric acid for, 1,235,552

Ammonium bifluoride, mfr. of, phosphate rock for, 1,235,552
—, —, process for, 1,235,552
—, —, silicon tetrafluoride for, 1,235,552
—, —, sulfuric acid for, 1,235,552
—, metals recovered from silicates by, 1,426,890; 1,426,891
—, polish, metal, contg., 1,471,466
—, silicate decomposed with, 1,426,890
Ammonium bisulfate, aluminum hydroxide made with, 1,493,320
—, ammonium persulfate made with, 1,195,560; 1,234,380
—, ammonium potassium sulfate made with, 1,261,116; 1,261,117
—, bottle cap made with, 1,486,641
—, compound, heat-producing, contg., 1,309,209
—, fertilizer of, process for, 1,261,116; 1,261,117; 1,310,080
—, formation of, process for, 1,479,874
—, hydrogen dioxide made with, 1,195,460; 1,234,380
—, mfr. of, ammonium chloride for, 1,479,874
—, —, carbon tetrachloride for, 1,479,874
—, —, *a*-hydroxy-*iso*-butyric acid nitrile for, 1,479,874
—, —, process for, 1,479,874
—, —, sulfuric acid for, 1,479,874
—, plaster made with, 1,185,773; 1,185,774; 1,185,775
—, potassium sulfate made with, 1,261,116; 1,261,117
—, smelter fumes for, 1,291,745
—, sulfur dioxide for, 1,291,745
—, tanning compound made with, 1,147,245
—, viscose, precipitation of, using, 1,486,641
Ammonium bisulfite, *p*-aminobenzoic acid made with, 1,458,715
—, ammonium sulfate made with, 1,133,086; 1,291,745
—, anthranilic acid made with, 1,458,715
—, cellulose made with, 1,244,525
—, paper made with, 1,244,525
—, paper, kraft, made with, 1,244,525
—, photography, toning bath for, contg., 1,286,890
—, silk, artificial, viscose, made with, 1,374,718
—, —, —, —, spinning of using, 1,422,412
—, sodium anthranilate made with, 1,458,715
—, sulfur made with, 1,133,086
—, sulfuric acid made with, 1,133,086
—, viscose precipitated with, 1,374,718
—, viscose spinning bath contg., 1,422,412
Ammonium bitartrate, bread, made with, 1,158,933
—, electrolyte contg., 1,387,471; 1,419,360
—, light producing apparatus made using, 1,419,360
Ammonium borate, adhesive, fireproof, made with, 1,248,092
—, ammonium phosphate($(NH_4)_2HPO_4$), made with, 1,251,742
—, —, ($(NH_4)_3PO_4$), made with 1,251,742
—, boron(ic) oxide made with, 1,386,008
—, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Ammonium borate, caoutchouc, *b.g*-dimethyl-erythrene, vulcanization of using, 1,149,580
—, —, erythrene, vulcanization of using, 1,149,580
—, —, isoprene, vulcanization of using, 1,149,580
—, catalyst, dehydrogenation, made with, 1,215,334
—, —, hydrogenation, made with, 1,215,334
—, circuit interrupter, electrolytic, made with, 1,341,631
—, condenser, electrolyte for contg., 1,266,557; 1,270,784
—, —, electrolytic, made with, 1,341,631; 1,412,513; 1,412,514
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, dehydrogenation, catalyst for, made with, 1,215,334
—, electrolyte contg., 1,419,360
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, electrolyte for lightning arresters contg., 1,412,514
—, electrolytic cell electrolyte for contg., 1,270,784
—, explosive made with, 1,510,348
—, fertilizer made with, 1,251,742
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,248,092
—, fire-proofing solution contg., 1,382,618
—, hydrogenation, catalyst for, made with, 1,215,334
—, insulating material bonded with, 1,386,008
—, insulation, electric, fireproof, made with, 1,161,989
—, lightning arrester, electrolyte for contg., 1,266,557; 1,270,784; 1,412,513; 1,412,514
—, nickel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, nitro-starch stabilizer, 1,510,348
—, paint, fireproof, made with, 1,248,092
—, paper, fireproof sizing for, made with, 1,248,092
—, photographic material hardened with, 1,424,062
—, rectifier, electrolyte for contg., 1,266,557; 1,412,513; 1,412,514
—, rubber, Para, vulcanization of using, 1,149,580
—, —, plantation, vulcanization of using, 1,149,580
—, starch, fireproof, made with, 1,248,092
—, steel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, varnish, fireproof, made with, 1,248,092
—, wood fireproofed with, 1,274,171
—, wood preserved with, 1,274,171
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Ammonium (di) borate, antiseptic contg., 1,336,272
Ammonium (mono)borate, antiseptic contg., 1,336,272
Ammonium bromate, iodine-producing tablet contg., 1,429,276
—, wood preservative contg., 1,265,370

Ammonium bromide, ammonium silicate made with, 1,270,093
—, battery, dry, made with, 1,521,295
—, catalyst, diphenylamine made with, 1,314,538
—, cellulose, fireproofing of with, 1,318,523; 1,318,524
—, cloth, fireproofing of with, 1,318,523; 1,318,524
—, fireproofing with, 1,318,523; 1,318,524
—, formation of, 1,292,016
—, *a*-hydroxy-acids made with, 1,479,874
—, iodine-producing tablet contg., 1,429,276
—, lead sulfide ores treated with, 1,441,072
—, mfr. of, ammonia for, 1,291,745; 1,292,016
—, —, apparatus for, 1,291,745
—, —, bromine for, 1,291,745; 1,292,016
—, precipitation of from gases, 1,292,016
—, silicic acid made with, 1,270,093
—, wood, fire-proofing of with, 1,318,523; 1,318,524
Ammonium butyl xanthate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Ammonium cadmium sulfate, battery, cadmium electrode for, made with, 1,509,138
—, cadmium electrode made with, 1,509,138
Ammonium calcium phosphate, fertilizer made with, 1,146,222; 1,166,104; 1,420,596
—, *see also Calcium-ammonium phosphate*
Ammonium carbamate, calcium urea phosphate made with, 1,280,650
—, fermentation, acid, using, 1,123,920
—, fertilizer made with, 1,280,650
—, formation of, acetylene for, 1,421,743
—, mfr. of, ammonia for, 1,211,393; 1,344,673
—, —, carbon dioxide for, 1,211,393; 1,344,673
—, —, hydrocarbon for, 1,211,393
—, —, hydrocarbon, benzene, for, 1,211,393
—, —, petroleum for, 1,211,393
—, —, process for, 1,211,393; 1,344,673
—, —, water for, 1,211,393
—, preparation of, 1,429,953
—, urea made with, 1,274,503; 1,292,019; 1,344,673; 1,429,483; 1,453,069
—, yeast from sugar and, 1,449,103
Ammonium carbaminate, urea made with, 1,173,550
—, *see also Ammonium carbamate*
Ammonium carbonate, acetaldehyde made with, 1,511,754
—, alcohol made with, 1,245,818; 1,511,754
—, alkali carbonate made with, 1,193,795
—, amines, aromatic, catalyst for the mfr. of, made with, 1,207,802
—, ammonium benzyl phthalate made with, 1,485,377; 1,485,379
—, ammonium benzyl succinate made with, 1,485,377; 1,485,379
—, ammonium chloride made with, 1,473,966
—, ammonium cyanamide made with, 1,352,177; 1,352,179
—, ammonium cyanate made with, 1,241,919; 1,241,920
—, ammonium fluosilicate made with, 1,357,025
—, ammonium molybdate made with, 1,250,063
—, ammonium nitrate made with, 1,303,167; 1,315,534
Ammonium carbonate, ammonium phosphate $(NH_4)_2HPO_4$, made with, 1,251,742
—, —, $(NH_4)_3PO_4$, made with, 1,251,742; 1,252,318
—, ammonium resinate made with, 1,233,480
—, ammonium sulfate made with, 1,152,244; 1,152,245; 1,315,534; 1.425,577; 1,430,269; 1,430,270; 1,430,271
—, ammonium sulfate neutralized with, 1,377,493
—, ammunition made with, 1,187,779; 1,192,678
—, aniline, catalyst for the mfr. of, made with, 1,207,802
—, barium carbonate made with, 1,241,919; 1,241,920; 1,444,623
—, battery electrode made with, 1,438,086
—, benzene, hydrocarbon, naphthene separation of from using, 1,520,953
—, —, —, paraffin, separation of from using, 1,520,953
—, —, —, saturated, separation of from using, 1,520,953
—, —, naphtha, petroleum, separation of from using, 1,520,953
—, block, building, contg., 1,305,993
—, blue print paper made with, 1,500,433
—, board made with, 1,245,984
—, bread made with, 1,190,827
—, cadmium made with, 1,204,843
—, calcium carbonate made with, 1,152,244; 1,152,245; 1,252,318
—, calcium hydroxide, action of or, 1,349,750
—, calcium phosphate $(Ca(H_2PO_4)_2)$, made with, 1,252,318
—, calcium phosphate, acid, made with, 1,252,318
—, candy contg., 1,450,865
—, caoutchouc composition contg., 1,437,487
—, carbon monoxide, absorption of, using, 1,196,101; 1,207,968
—, —, gas, removal from of using, 1,207,968
—, —, hydrogen, removal from of, using, 1,196,101
—, case-hardening composition contg., 1,312,339
—, casein composition made with, 1,437,487
—, catalyst (for amines, aromatic, mfr.), made with, 1,207,802
—, —, (for aniline mfr.), made with, 1,207,802
—, —, (for *o*-toluidine mfr.), made with, 1,207,802
—, —, nickel as, made with, 1,165,956
—, —, urea made with, 1,274,503; 1,292,019
—, celluloid substitute made with, 1,245,818; 1,275,324; 1,280,862; 1,427,645
—, cellulose made with, 1,244,525; 1,509,273
—, cellulose fibers made with, 1,509,273
—, cellulose nitrate made with, 1,509,273
—, cement contg., 1,456,667
—, *1*-chlor-2-nitrobenzene-4-sulfonamide made with, 1,325,841
—, coal gas, removal from of, apparatus for, 1,237,767; 1,487,768
—, —, —, glycerol for, 1,237,767
—, —, —, process for, 1,237,767; 1,487,768
—, cobalt made with, 1,204,843; 1,487,145
—, cocoa bean, treatment of using, 1,515,947
—, cocoa powder made with, 1,243,244
—, combustion preventor contg., 1,369,179
—, compound, heat-producing, contg., 1,309,209

Ammonium carbonate, condenser, electrolytic, made with, 1,412,513
—, condensing agent in tanning agent mfr., 1,443,697
—, confection contg., 1,450,860
—, copal recovery of using, 1,398,438
—, copper made with, 1,204,843; 1,440,186; 1,487,145; 1,509,774
—, copper, iron, using, 1,484,690
—, —, steel, using, 1,484,690
—, copper cyanamide made with, 1,352,177; 1,352,179
—, copper solvent, 1,440,186
—, cresol-formaldehyde condensates made with, 1,437,726
—, detergent contg., 1,324,764
—, 2.2′-diamino-1.1′-dihydroxy-dibenzene-4.4′-disulfonimide made with, 1,325,841
—, diaphragm made with, 1,387,004
—, electrolyte contg., 1,419,360
—, electrolyte for lightning arresters, 1,412,513
—, enamel remover made with, 1,495,547
—, enamelling frit contg., 1,360,317; 1,360,318
—, explosive contg., 1,457,709
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, fabric stiffening material contg., 1,421,700
—, fermentation, acid, using, 1,123,920
—, ferro-molybdenum made with, 1,278,408
—, fertilizer made with, 1,144,905; 1,251,742; 1,268,563; 1,413,013; 1,471,979
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, film dyed with, 1,305,962
—, fire-extinguisher made with, 1,276,742; 1,431,789
—, fire-extinguisher for cinematograph films contg., 1,392,233
—, fireproofing made with, 1,276,742
—, food product made with, 1,245,818; 1,275,324
—, formation of, 1,348,933; 1,349,750; 1,360,734; 1,378,593; 1,413,763; 1,425,577; 1,428,646; 1,429,276; 1,429,483; 1,430,269; 1,430,270; 1,430,271
—, —, acetylene for, 1,421,743
—, —, air for, 1,154,145
—, —, ammonia for, 1,359,097
—, —, ammonium chloride for, 1,359,097
—, —, ammonium hydroxide for, 1,154,145
—, —, carbon dioxide for, 1,154,145
—, —, sodium bicarbonate for, 1,359,097
—, —, urea for, 1,185,731
—, fuel, gaseous, removal from of, apparatus for, 1,237,767
—, —, —, —, glycerol for, 1,237,767
—, —, —, —, process for, 1,237,767
—, fungicide made with, 1,501,427
—, gas, carbon monoxide, removal of from using, 1,207,968
—, gases purified with cuprous chloride and, 1,403,391
—, gas treated with, 1,430,920
—, glass coloring of with, 1,277,172
—, glycerol made with, 1,511,754
—, gums, recovery of using, 1,398,438
—, hydrocarbon, aromatic, naphthene, separation of from using, 1,520,953
Ammonium carbonate, hydrocarbon, aromatic, naphthene, paraffin, separation of from using, 1,520,953
—, —, —, —, saturated, separation of from using, 1,520,953
—, —, —, naphtha, petroleum, separation of from using, 1,520,953
—, —, naphthene, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using, 1,520,953
—, —, paraffin, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using, 1,520,953
—, —, saturated, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using, 1,520,953
—, —, unsaturated, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, —, paraffin, separation of from using, 1,520,953
—, —, —, —, saturated, separation of from using, 1,520,953
—, —, —, naphtha, petroleum, separation of from using, 1,520,953
—, hydrogen, carbon monoxide, removal of from, using, 1,196,101
—, hydroxides precipitated by, 1,337,192
—, ink made with, 1,471,884
—, ink, printing, made with, 1,471,884
—, insecticide made with, 1,501,427
—, insulating composition contg., 1,456,667
—, insulating composition applied with, 1,381,118
—, insulation, electric, made with, 1,245,976; 1,245,980; 1,245,981; 1,245,984
—, —, heat, made with, 1,228,609; 1,456,667
—, inulin prepared with, 1,399,544
—, iron, copper coating on, using, 1,484,690
—, —, nickel coating on, using, 1,484,690
—, iron(ic) chloride made with, 1,501,587
—, iron(ic) hydroxide made with, 1,501,587
—, iron molybdate made with, 1,278,408
—, lacquer made with, 1,245,818; 1,245,981; 1,245,982; 1,275,324; 1,427,645
—, lard substitute made with, 1,203,905

Ammonium carbonate, lead carbonate made with, 1,430,270; 1,430,271
—, leather, artificial, made with, 1,245,818; 1,245,977; 1,275,324; 1,427,645
—, —, waterproofing for, made with, 1,223,480
—, leather substitute made with, 1,387,004
—, lightning arrester, electrolytic, made with, 1,412,513
—, linoleum substitute made with, 1,427,645
—, linseed oil, recovery of using, 1,398,438
—, lozenge contg., 1,450,865
—, magnesium carbonate made with, 1,427,444
—, magnesium carbonate (basic), made with, 1,163,475; 1,228,609
—, manganese dioxide produced electrolytically from solutions contg., 1,352,208
—, mfr. of, air for, 1,494,735
—, —, aluminum carbonitride ($Al_2C_3N_6$), for, 1,129,509
—, —, aluminum oxide for, 1,129,509
—, —, ammonia for, 1,152,245; 1,209,258; 1,211,393; 1,300,110; 1,344,673
—, —, ammonium chloride for, 1,209,258; 1,473,966
—, —, ammonium hydroxide for, 1,258,934
—, —, ammonium sulfate for, 1,152,245
—, —, apparatus for, 1,129,507; 1,129,508; 1,129,509; 1,209,258; 1,494,735
—, —, barium carbonate for 1,209,258
—, —, bitumen, shale, contg., 1,494,735
—, —, boron carbonitride ($B_2C_3N_6$), for, 1,129,508
—, —, boron oxide (B_2O), for, 1,129,508
—, —, calcium carbide for, 1,315,534
—, —, calcium cyanamide for, 1,326,045
—, —, calcium fluoride as catalyst for, 1,315,534
—, — calcium oxide for, 1,315,534
—, —, carbide for, 1,315,534
—, —, carbon for, 1,129,507; 1,129,508; 1,129,509; 1,315,534
—, —, carbon dioxide for, 1,152,245; 1,209,258; 1,211,393; 1,258,934; 1,344,673; 1,490,728
—, —, chloride as catalyst for, 1,315,534
—, —, chlorine for, 1,473,966
—, —, coal for, 1,315,534
—, —, coke for, 1,315,534
—, —, cyanamide for, 1,315,534
—, —, cyanide for, 1,315,534
—, —, "dimetal isocyanide" for, 1,315,534
—, —, fluoride as catalyst for, 1,315,534
—, —, hydrocarbon for, 1,211,393
—, —, hydrocarbon, benzene, for, 1,211,393
—, —, hydrogen sulfide for, 1,490,728
—, —, isocyanide for, 1,315,534
—, —, lime for, 1,315,534
—, —, magnesium carbonate for, 1,473,966
—, —, magnesium hydroxide for, 1,473,966
—, —, magnesium oxide for, 1,473,966
—, —, magnesium oxychloride for, 1,473,966
—, —, nitride for, 1,315,534
—, —, nitrogen for, 1,129,507; 1,129,508; 1,129,509
—, —, oxygen for, 1,494,735
—, —, petroleum for, 1,211,393
—, —, potassium chloride for, 1,473,966
—, —, process for, 1,129,507; 1,129,508; 1,129,509; 1,152,245; 1,207,567; 1,209,258; 1,211,393; 1,315,534; 1,326,045; 1,344,673; 1,473,966; 1,490,728; 1,494,735
Ammonium carbonate, mfr. of, producer gas for, 1,129,507; 1,129,508; 1,129,509
—, —, shale, bituminous, for, 1,494,735
—, —, silica for, 1,129,507
—, —, silicon carbonitride ($Si_3C_6N_{12}$), for, 1,129,507
—, —, silicon dioxide for, 1,129,507
—, —, silk, artificial, cellulose nitrate, nitration waste liquor from, for, 1,490,728
—, —, sodium carbonate for, 1,315,534
—, —, sodium chloride for, 1,473,966
—, —, sodium chloride as catalyst for, 1,315,534
—, —, sodium sulfate for, 1,315,534
—, —, sulfur dioxide for, 1,326,045
—, —, sulfurous acid for, 1,326,045
—, —, water for, 1,209,258; 1,211,393
—, milk substitute made with, 1,265,227
—, molded article made with, 1,427,645; 1,511,003
—, molybdenum compound made with, 1,250,063
—, naphtha, petroleum, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using, 1,520,953
—, nickel made with, 1,204,843; 1,487,145
—, nickel, catalyst, made with, 1,165,956
—, —, iron, using, 1,484,690
—, —, steel, using, 1,484,690
—, oil, drying, recovery of using, 1,398,438
—, —, recovery of using, 1,398,438
—, oil gas, removal from of, apparatus for, 1,237,767
—, —, —, glycerol for, 1,237,767
—, —, —, process for, 1,237,767
—, oils and gums recovered with, 1,398,438
—, oil washed with, 1,438,764
—, paint, recovery of using, 1,398,438
—, paint remover made with, 1,467,654; 1,495,547; 1,500,899
—, paper made with, 1,153,883; 1,244,525; 1,509,273
—, —, coloring of with, 1,277,172
—, —, kraft, made with, 1,244,525
—, —, sizing for, made with, 1,223,480
—, —, waterproof coating for made with, 1,266,955; 1,266,956
—, paper waterproofing mixture contg., 1,387,004
—, paracoumarone, recovery of using, 1,398,438
—, paste-board made with, 1,153,883
—, phenol aldehyde condensate made with, 1,126,926; 1,143,714; 1,187,230; 1,187,232; 1,245,976; 1,252,507; 1,505,382
—, phenolphthalein alkali carbonate compound decomposed by, 1,357,482
—, photographic image, colored, use of in making, 1,450,412
—, pill contg., 1,450,865
—, plastic made with, 1,245,981; 1,398,438
—, porcelain coloring of with, 1,277,172

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Ammonium carbonate, potassium carbonate made with, 1,357,025
—, potassium carbonate made with potassium silicofluoride by, 1,355,381; 1,355,588
—, potassium compounds recovered by, 1,344,830
—, potassium silicofluoride decomposed by, 1,355,794; 1,357,025
—, powder made with, 1,450,865
—, proteid made with, 1,275,324
—, proteid, vegetable, made with, 1,275,308
—, proteid product made with, 1,245,818; 1,245,976; 1,245,981
—, recovery of ammonium chloride in presence of, 1,416,772
—, recovery from ammonia-soda process, 1,398,135
—, rectifier, electrolytic, made with, 1,412,513
—, resin, recovery of using, 1,398,438
—, rifle barrel, cupro-nickel fouling in, using, 1,484,690
—, rosin, recovery of using, 1,398,438
—, rubber, artificial, made with, 1,275,324
—, —, imitation, made with, 1,245,818
—, —, spongy, made with, 1,156,184
—, —, vulcanization of, using, 1,203,241
—, rubber-like substance made with, 1,415,468
—, rubber substitute made with, 1,159,258; 1,245,976; 1,245,979; 1,245,984; 1,387,004; 1,427,645
—, sandarac, recovery of using, 1,398,438
—, shoe filler made with, 1,227,696
—, shortening composition made with, 1,203,905
—, silicon dioxide made with, 1,501,587
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, sludge sulfonic acid tar treated with, 1,271,387
—, soap made with, 1,196,274
—, sodium chloride purified with, 1,475,563
—, sodium hydroxide made with, 1,249,314
—, sodium molybdate made with, 1,250,063
—, sponge rubber made with, 1,422,884
—, steel, copper coating on, using, 1,484,690
—, —, nickel coating on, using, 1,484,690
—, stencil made with, 1,289,725; 1,398,013
—, stone, artificial, contg., 1,456,667
—, storage battery separator made with, 1,463,864
—, suint ingredient, 1,405,371
—, sulfuric acid in foods neutralized with, 1,412,523
—, tablet made with, 1,450,865
—, tanning compound made with, 1,327,105; 1,437,726; 1,443,697
—, tennis racket string made with, 1,231,911
—, textile, waterproofing for, made with, 1,223,480
—, thorium carbonate made with, 1,307,153
—, thorium fluoride dissolved by, 1,307,153
—, thorium phosphate treated with, 1,368,243
—, thorium separated from cerium group metals with, 1,307,153
—, thorium separated from phosphate with, 1,307,153
—, thorium separated from yttrium group metals with, 1,307,153
Ammonium carbonate, tile made with, 1,245,984
—, tire filler made with, 1,193,196; 1,369,626
—, tire, solid, made with, 1,227,791
—, titanium dioxide made with, 1,501,587
—, toluene, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, paraffin, separation of from using, 1,520,953
—, —, naphtha, petroleum, separation of from using, 1,520,953
—, *o*-toluidine, catalyst for the mfr. of, made with, 1,207,802
—, tung oil, recovery of using, 1,398,438
—, tungsten oxide (WO_3), made with, 1,244,082
—, tungsten trioxide made with, 1,410,584
—, urea made from, 1,173,550; 1,241,919; 1,241,920; 1,344,673; 1,429,483; 1,453,069
—, varnish made with, 1,159,258; 1,245,818; 1,275,324; 1,280,861; 1,398,438; 1,427,645
—, varnish, recovery of using, 1,398,438
—, varnish remover made with, 1,500,899
—, water gas, removal from of, apparatus for, 1,237,767
—, —, —, glycerol for, 1,237,767
—, —, —, process for, 1,237,767
—, waterproofing made with, 1,223,480
—, water purified using, 1,513,566
—, wood, waterproofing for, made with, 1,223,480
—, wood coloring of with, 1,277,172
—, wool cleaning refuse contg., 1,405,371
—, xylene, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, paraffin, separation of from using, 1,520,953
—, —, —, saturated, separation of from using, 1,520,953
—, —, naphtha, petroleum, separation of from using, 1,520,953
—, yeast made with, 1,449,110
—, yeast made from sugar and, 1,449,103
—, yeast food made with, 1,190,827; 1,431,156; 1,519,801
—, yeast treated with, 1,415,469
—, zinc made with, 1,204,843
—, zinc carbonate made with, 1,430,269; 1,430,270; 1,430,271
—, zinc carbonate (basic), made with, 1,258,934
—, zirconium oxide made with, 1,501,587
Ammonium caseinate, acetic acid made with, 1,214,518
—, ale made with, 1,214,518
—, beer made with, 1,214,518
—, beverage made with, 1,214,518
—, lactic acid made with, 1,214,518
—, malt substitute made with, 1,214,518
—, porter made with, 1,214,518
—, sake made with, 1,214,518
—, vinegar made with, 1,214,518
Ammonium cerium nitrate, catalyst, (for nitrogen oxide mfr.), made with, 1,207,707; 1,211,394
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,207,707; 1,211,394
Ammonium chlorate, ammonium perchlorate made with, 1,273,477
—, detonator made with, 1,194,095; 1,206,456

Ammonium chlorate, explosive contg., 1,310,466; 1,327,985; 1,395,776; 1,408,056
—, glass made with, 1,488,914
—, lubricant made with, 1,145,877
—, match made with, 1,329,537
—, packing, lubricating, made with, 1,145,877
—, rubber balls made with, 1,400,146
Ammonium chloride, 3-acetyl-4-hydroxy-5-nitro-benzenearsonic acid phenylhydrazone reduced using, 1,425,930
—, adhesive made with, 1,287,841; 1,378,128; 1,380,568
—, adhesive, fireproof, made with, 1,248,092
—, airplane dope made with, 1,388,824; 1,388,827
—, aluminum, acid resistant, made with, 1,130,196
—, —, copper coated with, made with, 1,155,974
—, —, iron coated with, made with, 1,155,974
—, —, soldering of, use of, 1,321,454; 1,321,529
—, aluminum castings, porous, sealed with, 1,384,033
—, aluminum cleaner contg., 1,456,486
—, aluminum soldering composition contg., 1,402,644
—, aluminum solder prepared with, 1,416,924
—, aluminum treated with, 1,130,196
—, 2-amino-anthraquinone made with, 1,338,364; 1,340,603
—, 2-amino-anthraquinone made in presence of, 1,338,363; 1,338,364
—, *N*-(4-amino-1′-naphthyl)-*p*-toluenesulfonamide made with, 1,442,818
—, 4-amino-1-(*p*-tolylsulfonamide)-naphthalene-2-sulfonic acid made with, 1,442,818
—, 4-amino-1-(*p*-tolylsulfonamide)-naphthalene-6-sulfonic acid made with, 1,442,818
—, 4-amino-1-(*p*-tolylsulfonamide)-naphthalene-7-sulfonic acid made with, 1,442,818
—, 4-amino-1-(*p*-tolylsulfonamide)-naphthalene-8-sulfonic acid made with, 1,442,818
—, ammonia made with, 1,209,258; 1,310,306; 1,386,244; 1,473,966; 1,499,001; 1,499,002
—, ammonia recovered as, process for, 1,378,593; 1,452,009
—, ammonium bisulfate made with, 1,479,874
—, ammonium carbonate made with, 1,209,258; 1,473,966
—, ammonium chlorplatinate made with, 1,347,158
—, ammonium cyanate made with, 1,221,506
—, ammonium hydroxide made with, 1,238,916
—, ammonium magnesium chloride made with, 1,276,499
—, ammonium perchlorate made with, 1,273,477; 1,320,160; 1,453,984
—, ammonium phosphate ($(NH_4)_2HPO_4$), made with, 1,251,742
—, —, ($(NH_4)_3PO_4$), made with, 1,251,742
—, ammonium silicate made with, 1,270,093
—, ammonium sulfate made with, 1,194,354; 1,420,128; 1,420,129
—, ammonium sulfide from, barium sulfide for, 1,378,593
—, aniline black made with, 1,157,908
—, antimony sulfide made with, 1,261,023
—, antiseptic made with, 1,276,119
—, arsenic compounds prepared with, 1,425,930
Ammonium chloride, arsenic derivatives prepared with, Re-15,557; 1,425,931
—, arsenic sulfide made with, 1,261,023
—, 4-arsinoso-acetophenone made with, Re-15,557; 1,425,931
—, *N*-(*p*-arsinophenyl)-glycinanilide made with, 1,280,121; 1,280,126
—, *N*-(*p*-arsinosophenyl)-*α*-phenyl-glycinamide made with, 1,280,121; 1,280,126
—, bacteria, sulfur oxidizing, obtained using, 1,494,435
—, ball made with, 1,240,439
—, barium carbonate decomposed by, 1,428,646
—, barium chloride made with, 1,209,258; 1,378,594
—, barium sulfide, action of on, 1,378,594; 1,378,595
—, bast, treatment of using, 1,162,191
—, batteries, spent, recovery from of, 1,412,986
—, battery contg., 1,352,087; 1,385,151; 1,391,211; 1,398,366; 1,464,838
—, battery, dry, made with, 1,123,843; 1,147,753; 1,149,665; 1,149,666; 1,160,907; 1,160,999; 1,162,449; 1,170,819; 1,174,798; 1,182,202; 1,196,225; 1,198,619; 1,201,709; 1,209,298; 1,211,363; 1,215,774; 1,221,061; 1,221,062; 1,224,376; 1,236,693; 1,284,458; 1,287,634; 1,292,254; 1,292,764; 1,295,475; 1,296,700; 1,305,485; 1,316,597; 1,355,899; 1,357,160; 1,358,334; 1,358,350; 1,361,499; 1,366,095; 1,366,298; 1,366,298; 1,468,574; 1,480,533; 1,484,780; 1,484,782; 1,484,918; 1,487,728; 1,488,908; 1,497,316; 1,497,317; 1,500,027; 1,503,285; 1,506,189; 1,511,271; 1,515,652; 1,515,912; 1,516,974; 1,518,637; 1,518,638; 1,521,295
—, —, —, depolarizer for, made with, 1,484,782
—, —, —, electrolyte for contg., 1,140,826; 1,272,405; 1,272,406; 1,272,407; 1,272,952; 1,293,272
—, —, —, recovery from of, 1,192,061
—, —, —, regenerated with, 1,311,559
—, —, primary, made with, 1,201,709; 1,215,774; 1,356,977; 1,357,160; 1,486,613
—, —, —, cathode for, made with, 1,243,111
—, —, —, copper oxide electrode for, made with, 1,366,559; 1,486,955; 1,496,527
—, battery contg., electrolyte of, 1,370,054; 1,370,055; 1,370,056
—, battery depolarizing mixture contg., 1,391,211
—, battery electrolyte contg., 1,334,849; 1,356,977; 1,395,281; 1,395,282; 1,397,183; 1,425,573; 1,434,469; 1,437,553; 1,445,503
—, battle-ship, packing for water-tight compartment of, made with, 1,235,220
—, bearing made with, 1,185,220
—, bedding, fireproof, made with, 1,165,062
—, belting made with, 1,180,902
—, *N.N′*-Bis(4-amino-1-naphthyl)-*m*-benzenedisulfonamide made with, 1,442,818
—, *N.N′*-Bis(4-Amino-1-naphthyl)-2.6-naphthalenedisulfonamide made with, 1,442,818
—, *N.N′*-Bis(4-Amino-2-sulfo-1-naphthyl)-*m*-benzenedisulfonamide made with, 1,442,818
—, *N.N′*-Bis(4-amino-6-sulfo-1-naphthyl)-*m*-benzenedisulfonamide made with, 1,422,818

Ammonium chloride, *N.N'*-Bis(4-amino 7-sulfo-1-naphthyl)-*m*-benzenedisulfonamide made with, 1,442,818
—, *N.N'*-Bis(4-amino-8-sulfo-1-naphthyl)-*m*-benzenedisulfonamide made with, 1,442,818
—, block, building, contg., 1,305,993
—, brake shoe composition ingredient, 1,429,358
—, brass, crystallizing surface of, using, 1,207,910
—, —, electrodeposition of, using, 1,515,042
—, —, etching of, with, 1,276,599
—, —, —, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, bread made with, 1,151,526; 1,158,933; 1,213,210; 1,325,327
—, cadmium sulfide made with, 1,261,023
—, calcium chloride made with, 1,262,939
—, carbohydrate phosphoric acid esters made with, 1,129,321
—, carbohydrate phosphoric acid esters calcium salt of, made with, 1,129,321
—, carbon, leached with zinc chloride and, 1,292,254
—, carbon brush, electric connection to, made using, 1,485,942
—, carbon dioxide made with, 1,209,258
—, carbon monoxide, absorption of, using, 1,196,101
—, —, hydrogen, removal from of using, 1,196,101
—, carbon remover contg., 1,292,903
—, case hardening using, 1,495,446
—, catalyst made with, 1,314,952
—, catalyst, nickel as, made with, 1,165,956; 1,327,396
—, —, (for nitric acid mfr.), made with, 1,347,158; 1,347,159; 1,347,160
—, —, urea made with, 1,274,503; 1,292,019
—, catalyst in diphenylamine mfr., 1,422,494
—, cattle feed made with, 1,265,227
—, celluloid, decorating of using, 1,235,037
—, celluloid substitute made with, 1,245,976; 1,245,983; 1,245,984
—, cellulose, fireproofing of with, 1,318,523; 1,318,524
—, cement contg., 1,456,667
—, —, waste asbestos and, 1,365,077
—, cement, electric conducting, made with, 1,468,930
—, cement composition contg., 1,404,060
—, cerium made with, 1,273,223
—, cerium chloride dehydrated with, 1,289,079
—, China grass, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, chloride dehydrated with, 1,289,079
—, chrome yellow made with, 1,484,088
—, cloth, fireproofing of with, 1,318,523; 1,318,524
—, club-rush, treatment of using, 1,162,191
—, coal, anthracite, treatment of with, composition contg., 1,493,403
—, —, bituminous, treatment of with composition contg., 1,493,403
—, coal distillation product, 1,397,264
—, coal gas, recovery from of, apparatus for, 1,487,768
—, —, —, process for, 1,487,768
—, coating for cylinders contg., 1,292,903
—, cobalt hydroxide made with, 1,135,785
Ammonium chloride, coffer dam, interlining for, made with, 1,235,220
—, coke, treatment of with composition contg., 1,493,403
—, compressed, producing, 1,337,665
—, copper made with, 1,185,902; 1,485,909
—, copper, aluminum coated, made with, 1,155,974
—, —, electrodeposition of, using, 1,515,042
—, —, etching of with, 1,276,599
—, —, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, iron, compound body of and made using, 1,180,248; 1,180,249
—, —, —, using, 1,484,690
—, —, steel, compound body of and made using, 1,180,248; 1,180,249
—, —, —, using, 1,484,690
—, copper compound, sand, removal from of, using, 1,173,385
—, copper(ous) chloride made with, 1,185,902
—, copper hydroxide made with, 1,135,785
—, copper sulfide made with, 1,261,023
—, cotton, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, cotton fabric, silk-like finish for, made with, 1,132,001
—, coumarone resins washed with, 1,413,558
—, dentifrice made with, 1,470,794
—, depolarizing mixture contg., 1,331,213
—, detergent contg., 1,133,639; 1,151,257
—, die plate made with, 1,376,365; 1,376,366; 1,376,367; 1,376,368; 1,376,369
—, diphenylguanidine made with, 1,422,506
—, *a.g*-diphenylguanidine made with, 1,422,506
—, dry battery contg., 1,358,334; 1,358,350; 1,361,499; 1,380,034; 1,406,429; 1,430,726; 1,430,727
—, dry cell exciter, use of as, 1,448,110
—, dyeing cellulose acetate in presence of, 1,378,443
—, dyeing moleskins with, 1,384,446
—, electrolyte contg., 1,291,310; 1,371,466; 1,376,365; 1,376,366; 1,376,367; 1,376,368; 1,376,369
—, electrode of copper oxide and, 1,366,559
—, electrolyte contg., 1,273,432
—, —, electromotive force developed by, 1,427,011
—, electrolyte etching, contg., 1,289,022; 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, emulsion, light-sensitive, made with, 1,252,800
—, enamel, opaque, made with, 1,239,112
—, enamel remover contg., 1,133,639
—, engine, internal combustion, coating for cylinder of, contg., 1,292,903
—, —, internal scored cylinders of, repairing of using, 1,169,658
—, etching, electrolyte for, contg., 1,273,432; 1,288,775
—, excelsior substitute, fireproof, made with, 1,165,062
—, explosive made with, 1,320,160; 1,457,709; 1,509,393
—, explosive, explosion temperature of reduced by, 1,445,378

Ammonium chloride, fabric, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, —, fireproofing of using, 1,388,824; 1,388,827
—, —, waterproofing of using, 1,388,824; 1,388,827
—, feathers, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, fertilizer made with, 1,166,104; 1,225,825; 1,251,742
—, fertilizer, explosive, contg., 1,308,453
—, fertilizer contg., preparing, 1,418,618
—, fiber, animal dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, —, vegetable, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, fibers liberated by alkalies and, 1,345,776
—, filament made with, 1,180,902
—, film dye contg., 1,303,506
—, finish remover made with, 1,167,641
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,248,092; 1,318,523; 1,318,524
—, fireproofing composition contg., 1,338,322
—, fireproofing process using, 1,388,824; 1,388,827
—, flax, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, floor covering made with, 1,245,984
—, flotation of minerals with, 1,397,703
—, flux, soldering, contg., 1,293,823; 1,453,080
—, fog screen contg., 1,358,084
—, formation of, 1,378,595; 1,464,990; 1,464,991
—, —, benzene sulfonate chloride and ammonia for 1,367,160
—, —, ethyl chloride and ammonia for, 1,357,160
—, —, in blast furnaces, calcium chloride for inducing, 1,344,770
—, —, in electrolyte for iron purification, 1,420,128; 1,420,129
—, fuel, liquid, made with, 1,501,383
—, —, nitrogenous, treated to recover, 1,386,723
—, —, treatment of with composition contg., 1,493,403
—, furs, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, gelatin purified with, 1,457,466
—, germicide made with, 1,276,119
—, glass made with, 1,482,389
—, glass coloring made with, 1,277,172
—, glauconite water softening compound regenerated by, 1,348,977
—, gold, electrodeposition of using, 1,515,042
—, —, production of using, 1,176,858
—, —, recovery of using, 1,176,858
—, golf ball made with, 1,240,439
—, glue made with, 1,285,474
—, graphite brush, electric connection to, made with, 1,485,942
—, grass, treatment of using, 1,162,191; 1,189,756
—, greensand treated with for potash mfr., 1,452,186
—, gum, artificial, made with, 1,225,749; 1,225,750
—, hair, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, heater, chemical, made with, 1,502,744
—, heat producing compound made with, 1,481,208
Ammonium chloride, hemp, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, hydrochloric acid made with, 1,194,354; 1,420,128; 1,420,129
—, hydrocyanic acid contg., separation from of, 1,304,745
—, hydrogen, carbon monoxide, removal of from, using, 1,196,101
—, *a*-hydroxy-acids made with, 1,479,874
—, *a*-hydroxy-*iso*butyric acid made with, 1,479,874
—, *p*-hydroxyphenyl-stibnic acid made with, 1,260,707
—, *p*-hydroxyphenyl-stibnic acid, alkali salt of, made with, 1,260,707
—, —, ammonium salt of, made with, 1,260,707
—, hypochlorous acid, action of on, 1,378,644
—, ice made with, 1,460,646
—, insulating composition contg., 1,456,667
—, insulation, heat, made with, 1,170,488; 1,456,667
—, iron, aluminum coated, made with, 1,155,974
—, —, coating of using, 1,155,317; 1,168,664; 1,183,217
—, —, copper, compound body of and made using, 1,180,248; 1,180,249
—, —, copper coating on, using, 1,484,690
—, —, galvanizing of using, 1,133,628; 1,140,898; 1,315,779
—, —, lead alloy coated, made with, 1,189,373
—, —, lead coated, made using, 1,189,373; 1,285,511
—, —, nickel coating on, using, 1,484,690
—, —, polishing of, using, 1,216,643
—, —, rust, removal of from, using, 1,216,643
—, —, rusting of, made with, 1,215,471
—, —, tin alloy coated, made using, 1,189,373
—, —, tin coated, made with, 1,242,532
—, —, treatment of using, 1,241,112; 1,241,113
—, —, zinc alloy coated, made using, 1,189,373
—, —, zinc coated, made using, 1,189,373
—, iron compound, sand, removal from of, using, 1,173,385
—, iron hardening solution contg., 1,351,961
—, iron hydroxide made with, 1,135,785
—, iron mercury plated with, 1,413,343
—, iron retorts coated with aluminum by, 1,454,708
—, iron sulfide made with, 1,261,023
—, iron(ous) sulfide, action on of, 1,287,634
—, ivory substitute made with, 1,245,976
—, jute, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, lacquer, made with, 1,187,231
—, Lalande, depolarizer for contg., 1,468,234
—, lamp, vapor, electric, made with, 1,176,630
—, lead made with, 1,185,902; 1,441,063; 1,485,909
—, lead, iron coated with, made using, 1,189,373; 1,285,511
—, —, metal coated with, made using, 1,189,373
—, —, refining of, using, 1,285,511
—, —, steel coated with, made using, 1,189,373; 1,285,511
—, lead alloy, iron coated with, made with, 1,189,373
—, —, metal coated with, made using, 1,189,373

Ammonium chloride, lead alloy, steel coated with, made using, 1,189,373
—, lead chloride made with, 1,185,902; 1,441,063
—, lead chromate made with, 1,484,088
—, lead hydroxide made with, 1,135,785
—, lead sulfate made with, 1,185,902
—, lead sulfide made with, 1,261,023
—, lead sulfide ores treated with, 1,441,072
—, leather, artificial, made with, 1,180,902
—, leucite treated with for potash mfr., 1,452,186
—, linoleum substitute made with, 1,245,978; 1,245,984
—, liquors contg., working up, 1,398,135
—, lubricant made with, 1,181,976
—, lubricating oil, fireproof made with, 1,181,976
—, magnesium made with, 1,457,225
—, magnesium ammonium chloride made with, 1,301,766
—, magnesium carbonate (basic), made with, 1,163,475
—, magnesium chloride made with, 1,473,966
—, magnet core made with, 1,506,246
—, manganese dioxide made with carbonate in presence of, 1,343,390
—, manganese dioxide purified with, 1,343,585; 1,402,285; 1,430,726
—, manganese dioxide, "recovered," treated with, 1,518,637
—, manganese dioxide settled from suspensions by, 1,293,463
—, mfr. of, air for, 1,484,932
—, —, aluminum fluoride for, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, —, aluminum hydroxide for, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, —, ammonia for, 1,249,739; 1,453,060; 1,464,990; 1,473,966; 1,484,932; 1,488,002; 1,491,672; 1,492,661
—, —, ammonia, liquid for, 1,499,001; 1,499,002
—, —, ammoniacal gas liquor for, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, —, ammonium bicarbonate for, 1,488,002
—, —, ammonium carbonate for, 1,473,966
—, —, ammonium fluoride for, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, —, ammonium hydroxide for, 1,238,916; 1,464,990; 1,471,926; 1,475,155; 1,475,156; 1,475,157; 1,475,158; 1,489,360
—, —, ammonium magnesium chloride for, 1,276,499
—, —, apparatus for, 1,137,524; 1,471,926; 1,488,002; 1,491,486
—, —, by-product from ammonia-soda process, 1,359,097
—, —, calcium oxide for, 1,137,524
—, —, carbon for, 1,137,524; 1,484,932
—, —, carbon dioxide for, 1,249,739; 1,484,932; 1,488,002; 1,491,672; 1,492,661
—, —, carbon monoxide for, 1,484,932
—, —, carbon tetrachloride for, 1,499,001
—, —, charcoal for, 1,137,524
—, —, chloroform for, 1,499,001
—, —, coke for, 1,137,524
—, —, coke-oven by-product ammonia liquor for, 1,491,486
—, —, cyanogen for, 1,194,354
—, —, dichlor-methane for, 1,499,001; 1,499,002
Ammonium chloride, mfr. of, fuels for, 1,367,082
—, —, gas, destructive distillation, for, 1,471,926
—, —, hydrochloric acid for, 1,137,524; 1,194,354; 1,473,966; 1,484,932; 1,489,360
—, —, hydrofluoric acid for, 1,464,990; 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, —, hydrogen for, 1,484,932; 1,505,065
—, —, iron(ic) chloride for, 1,489,360
—, —, iron ore for, 1,489,360
—, —, lime for, 1,491,672
—, —, limestone for, 1,491,672
—, —, magnesium ammonium chloride for, 1,301,766
—, —, niter cake for, 1,475,156
—, —, nitrogen for, 1,137,524; 1,484,932; 1,492,661
—, —, process for, 1,137,524; 1,194,354; 1,207,567; 1,238,916; 1,249,739; 1,397,264; 1,464,990; 1,471,926; 1,473,966; 1,475,155; 1,475,156; 1,475,157; 1,475,158; 1,484,932; 1,488,002; 1,489,360; 1,491,486; 1,491,672; 1,492,661; 1,499,001; 1,499,002
—, —, sodium bisulfate for, 1,475,156
—, —, sodium carbonate for, 1,464,990
—, —, sodium chloride for, 1,238,916; 1,249,739; 1,464,990; 1,475,155; 1,475,156; 1,475,157; 1,475,158; 1,484,932; 1,488,002; 1,491,672; 1,492,661
—, —, sodium nitrate for, 1,475,156; 1,475,157; 1,475,158
—, —, sodium salt for, 1,475,156; 1,475,157
—, —, sodium sulfate for, 1,475,156; 1,475,157
—, —, sulfuric acid for, 1,484,932
—, —, tellurium dioxide for, 1,315,229
—, —, water for, 1,484,932
—, —, water gas for, 1,484,932; 1,491,672
—, —, zeolite, sodium, for, 1,238,916
—, mercury bichloride tablet made with, 1,204,794
—, mercury sulfide made with, 1,261,023
—, metal, etching of with, 1,276,599
—, —, lead alloy coated, made using, 1,189,373
—, —, lead coated, made using, 1,189,373
—, —, tin alloy coated, made using, 1,189,373
—, —, zinc alloy coated, made using, 1,189,373
—, —, zinc coated, made using, 1,189,373
—, metal chloride dehydrated with, 1,289,079
—, metal sulfide made with, 1,261,023
—, metamorphous, producing by pressure, 1,337,665
—, methylamine made with, 1,297,685
—, *N*-methyl-aniline made with, 1,221,077
—, methyl 4-quinolyl ketone made with, 1,145,487
—, methyl-6-methyl-4-quinolyl ketone made with, 1,145,487
—, misch-metal made with, 1,273,223
—, naphthylenediamine derivatives prepared with, 1,442,818
—, nickel, catalyst, made with, 1,165,956
—, —, coating with, using, 1,207,218
—, —, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, iron, using, 1,484,690
—, —, steel, using, 1,484,690
—, nickel catalyst prepared from nickel salts and, 1,327,396
—, nickel hydroxide made with, 1,135,785

Ammonium chloride, nitric acid, catalyst for the mfr. of, made with, 1,347,158; 1,347,159; 1,347,160
—, nitrogen chloride made with, 1,367,530
—, nitrogen in fuels for production of, 1,367,082
—, nitrogen trichloride made with, 1,367,530; 1,373,644
—, nutrient in cellulose fermentation, 1,443,881
—, obturating material made with, 1,192,662; 1,235,220
—, oil well cleaned with, 1,325,293
—, ores agglomerated with, 1,428,061
—, packing made with, 1,170,488
—, paint made with, 1,225,105
—, paint, cement, made with, 1,510,795
—, —, fireproof, made with, 1,248,092; 1,444,051
—, —, waterproof, contg., 1,444,051
—, paint remover contg., 1,133,639
—, paper, fireproof, sizing for, made with, 1,248,092
—, paper coloring of with, 1,277,172
—, paracoumarone made with, 1,413,558
—, paraindene made with, 1,413,558
—, phenol aldehyde condensate made with, 1,187,231; 1,225,749; 1,225,750
—, phenolphthalein alkali carbonate compound decomposed by, 1,357,482
—, phenyl-4-quinolyl ketone made with, 1,145,487
—, phenyl-stibnic acid made with, 1,260,707
—, phenyl-stibnic acid, sodium salt of, made with, 1,260,707
—, phenyl-stibnic oxychloride made with, 1,260,707
—, phenolite treated with for potash mfr., 1,452,186
—, photographic emulsion, self-toning, prepared with, 1,454,209
—, pigment made with, 1,484,088
—, plastic made with, 1,170,038; 1,180,902; 1,245,984
—, plate, printing, made with, 1,252,800; 1,276,599
—, platinum, precipitation of with, 1,315,660
—, —, platinum coating for aluminum applied with, 1,274,995
—, platinum coating for metal applied with, 1,274,995
—, platinum sponge made with, 1,309,623
—, polish contg., 1,216,643
—, porcelain, coloring of with, 1,277,172
—, potassium bicarbonate, separation of from, 1,221,506
—, potassium chlorate made with, 1,247,619
—, potassium chloride made with, 1,247,619
—, potassium compound made with, 1,247,619
—, potassium compound recovered by, 1,344,830
—, potassium hydroxide made with, 1,247,619
—, potassium mercuric iodide stabilized with, 1,276,119
—, printing, aluminum base for, grain screen for, made with, 1,265,641
—, —, copper base for, grain screen for, made with, 1,265,641
—, —, intaglio, grain screen for, made with, 1,265,641
Ammonium chloride, printing, lithographic, grain screen for, made with, 1,265,641
—, —, plate, grain screen for, made with, 1,265,641
—, —, stone base for, grain screen for, made with, 1,265,641
—, —, zinc base for, grain screen for, made with, 1,265,641
—, projectile retarding material made with, 1,192,662
—, propanetriol made with, 1,368,023
—, pyrolusite leached with zinc chloride and, 1,292,254
—, ramie, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, rare earth chloride dehydrated with, 1,289,079
—, reclaiming from dry batteries, 1,374,003
—, recovery from ammonia-soda process, 1,398,135
—, recovery from ammonia-soda process solutions of, apparatus for, 1,416,772; 1,519,476
—, recovery from gas, 1,346,967
—, recovery of from mine waste, 1,369,350
—, recovery from sal-ammoniac skimmings, 1,403,060
—, recovery from solution of, apparatus for, 1,416,772; 1,519,476
—, recovery of, 1,386,278; 1,464,990
—, —, apparatus for, 1,455,299
—, —, coke oven gas for, 1,309,143
—, —, illuminating gas for, 1,309,143
—, —, producer gas for, 1,309,143
—, refrigerator car, interlining for, made with, 1,235,220
—, resins, fusible, made with, 1,259,347
—, —, soluble, made with, 1,259,347
—, rhea, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, rifle barrel, cupro-nickel fouling in, using, 1,484,690
—, rubber article, inflated, made using, 1,480,376
—, rubber substitute made with, 1,180,902
—, rust made with, 1,215,471
—, sand, color removed from, using, 1,173,385
—, —, copper, removal of from, using, 1,173,385
— —, iron, removal of from, using, 1,173,385
—, shoe filler made with, 1,227,696
—, silicic acid made with, 1,270,093
—, silk, artificial, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, —, —, viscose, precipitation of, using, 1,393,198; 1,399,587; 1,509,338
—, —, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, —, weighting of, using, 1,238,307
—, silver made with, 1,185,902; 1,441,063; 1,485,909
—, silver, electrodeposition of, using, 1,515,042
—, silver chloride made with, 1,185,902
—, silver chloride image treated with, 1,331,092
—, silver sulfide made with, 1,261,023
—, sludge sulfonic acid, treatment of with, 1,211,721
—, smoke clouds of, characteristics of, 1,433,732
—, sodium bicarbonate made with, 1,221,506

Ammonium chloride, sodium bicarbonate, separation of from, 1,221,506; 1,484,932
—, sodium chloride, separation of from, 1,221,506; 1,398,135; 1,416,772
—, —, —, apparatus for, 1,416,772; 1,519,476
—, sodium chloride purified with, 1,475,563
—, sodium hydroxide made with, 1,249,314
—, sodium hydroxide neutralized with, 1,378,128
—, sodium tungstate made with, 1,399,705
—, solder contg., 1,357,297
—, solder, aluminum, contg., 1,256,285
—, soldering compound contg., 1,261,209; 1,327,620
—, soldering flux contg., 1,401,154; 1,428,088; 1,435,780; 1,444,946
—, —, glycerol, zinc sulfate and, 1,357,871
—, solubility in water of, 1,221,506
—, starch, fireproof, made with, 1,248,092
—, steel, coating of using, 1,155,317; 1,168,664; 1,183,217
—, —, copper, compound body of and made using, 1,180,248; 1,180,249
—, —, copper coating on, using, 1,484,690
—, —, etching of with, 1,276,599
—, —, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, lead alloy coated, made using, 1,189,373; 1,285,511
—, —, galvanizing of using, 1,133,628; 1,140,890
—, —, hardening of, using, 1,198,744
—, —, nickel coating on, using, 1,484,690
—, —, quenching of, solutions contg., 1,304,946
—, —, tin alloy coated, made using, 1,189,373
—, —, treatment of using, 1,151,049; 1,241,112
—, —, zinc alloy coated, made using, 1,189,373
—, —, zinc coated, made using, 1,189,373
—, steel alloy made with, 1,506,246
—, steel etched using, 1,376,365; 1,376,366; 1,376,367; 1,376,368; 1,376,369
—, steel tempered using, 1,243,899; 1,344,658
—, steel tempering compound contg., 1,344,658
—, steel tempering composition contg., 1,296,951
—, stencil made with, 1,376,365; 1,376,366; 1,376,367; 1,376,368; 1,376,369
—, stone, artificial, contg., 1,456,667
—, straw, treatment of using, 1,162,191; 1,189,756
—, sulfide ore lixiviated with, 1,441,063; 1,441,065
—, sulfur made with, 1,485,909
—, telegraph tape moistened by, 1,350,790
—, thread made with, 1,180,902
—, tin, iron coated with, made with, 1,242,532
—, tin alloy, iron coated with, made using, 1,189,373
—, —, metal coated with, made using, 1,189,373
—, —, steel coated with, made using, 1,189,373
—, tinning compound contg., 1,431,395
—, tinning flux contg., 1,431,395
—, tin-plating electrolyte contg., 1,426,678
—, titanium separated from iron by, 1,357,690
—, urea made with, 1,221,506
—, urea, separation of from, 1,221,506
—, varnish made with, 1,187,231
—, varnish, fireproof, made with, 1,248,092
—, varnish remover contg., 1,133,639
—, vegetable glue made with, 1,378,128
Ammonium chloride, vegetable matter, treatment of, using, 1,189,756
—, vessel, packing for watertight compartment of, made using, 1,235,220
—, viscose coagulated with, 1,382,947
—, viscose precipitating bath contg., 1,399,587
—, viscose silk treated with, 1,375,823; 1,375,824
—, viscose treated with, 1,140,174
—, water, mineral, made with, 1,213,210
—, waterproofing made with, 1,180,902
—, waterproofing process using, 1,388,824; 1,388,827
—, wood, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, —, fireproofing of with, 1,318,523; 1,318,524
—, wood coloring of with, 1,277,172
—, yeast made with, 1,475,494
—, yeast food made with, 1,213,210; 1,519,801
—, zinc made with, 1,185,902
—, zinc, electrodeposition of, using, 1,515,042
—, —, etching of with, 1,276,599
—, —, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, iron coated with, made using, 1,189,373
—, —, metal coated with, made using, 1,189,373
—, —, steel coated with, made using, 1,189,373
—, zinc alloy, iron coated with, made using, 1,189,373
—, —, metal coated with, made using, 1,189,373
—, —, steel coated with, made using, 1,189,373
—, zinc carbonate made with, 1,185,902
—, zinc chloride made with, 1,185,902; 1,352,399
—, zinc chloride, action of on paper prevented by, 1,437,553
—, —, compound with of, 1,261,696
—, zinc-coating metals with, 1,407,067
—, zinc electroplated from solutions contg., 1,419,839
—, zinc sulfide made with, 1,261,023
—, *see also Sal-ammoniac*
Ammonium chlorpalladinate, catalyst, hydrogenation, made with, 1,171,902
Ammonium chlorpalladinate, cotton seed oil, hydrogenation of, catalyst for made with, 1,171,902
—, hydrogenation, catalyst for, made with, 1,171,902
Ammonium chlorplatinate, battery, dry, depolarizer for, made with, 1,288,722
—, formation of, 1,347,158
—, —, chlorplatinic acid for, 1,315,660
—, nitric acid, catalyst for the mfr. of, made with, 1,347,158; 1,347,159; 1,347,160
—, platinum coating for aluminum applied with, 1,274,995
—, platinum coating for metal applied with, 1,274,995
—, platinum sponge made with, 1,309,623
—, *see also Platinum ammonium chloride*
Ammonium chromate, antifreeze mixture contg., 1,405,320
—, calcium chromate made with, 1,326,123; 1,429,001
—, catalyst, for the mfr. of hydrogen, made with 1,330,772
—, hydrogen, catalyst for the mfr. of, made with, 1,330,772

Ammonium chromate, mfr. of, alkali dioxide for, 1,326,123
—, —, ammonia for, 1,326,123
—, —, carbon dioxide for, 1,326,123
—, —, process for, 1,326,123
—, —, —, sodium chromate for, 1,326,123
—, photographic material hardened with, 1,424,062
—, stencil, metallic, made with, 1,311,275
—, tire made with, 1,200,296
—, wood preservative contg., 1,265,370
Ammonium chromium alum, see Ammonium chromium sulfate
Ammonium chromium sulfate, preparation of, 1,403,960
Ammonium citrate, ammonium phosphate, ($(NH_4)_2HPO_4$), made with, 1,251,742
—, —, ($(NH_4)_3PO_4$), made with, 1,251,742
—, ammonium potassium phosphate ($K(NH_4)HPO_4$), made with, 1,357,120
—, anti-static photographic film contg., 1,431,900; 1,434,453
—, blue print paper made with, 1,500,433
—, candy contg., 1,450,865
—, catalyst, urea made with, 1,292,019
—, condenser electrolyte for contg., 1,270,784
—, confection contg., 1,450,865
—, electrolyte contg., 1,390,505
—, electrolyte for iron purification contg., 1,420,128; 1,420,129
—, electrolytic cell electrolyte for contg., 1,270,784
—, fertilizer made with, 1,251,742
—, film, photographic, made with, 1,431,900; 1,434,453
—, lead grid for storage battery treated with, 1,304,192
—, lightning arrester electrolyte for contg., 1,270,784
—, lozenge contg., 1,450,865
—, photographic material hardened with, 1,424,062
—, pill contg., 1,450,865
—, powder contg., 1,450,865
—, rust removed by, 1,459,910
—, tablet contg., 1,450,865
—, viscose protected against mercerizing action of sodium hydroxide by, 1,392,833
—, ($(NH_4)_2H$), condenser, electrolyte for contg., 1,266,557
—, —, lightning arrester, electrolyte for contg., 1,266,557
—, —, rectifier, electrolyte for contg., 1,266,557
—, ($(NH_4)H_2$), condenser, electrolyte for contg., 1,266,557
—, —, lightning arrester, electrolyte for contg., 1,266,557
—, —, rectifier, electrolyte for contg., 1,266,557
—, ($(NH_4)_3$), condenser, electrolyte for contg., 1,266,557
—, —, lightning arrester, electrolyte for contg., 1,266,557
—, —, rectifier, electrolyte for contg., 1,266,557
Ammonium compound, adhesive made with, 1,287,841
—, battery, primary, made with, 1,484,781
—, brine treated for recovery of, 1,386,244
Ammonium compound, caoutchouc composition contg., 1,437,487
—, case-hardening using, 1,152,959
—, cellulose made with, 1,509,273
—, cellulose fibers made with, 1,509,273
—, cellulose nitrate made with, 1,509,273
—, cryolite, artificial, made with, 1,511,561
—, fertilizer made with, 1,128,446; 1,139,778; 1,144,905
—, formation in blast furnaces, calcium chloride for causing, 1,344,770
—, mfr. of, apparatus for, 1,247,060
—, —, benzine for, 1,251,954
—, —, calcium compound for, 1,251,954
—, —, coal for, 1,251,954
—, —, hydrogen for, 1,251,954
—, —, peat for, 1,145,095; 1,251,954
—, —, pitch for, 1,251,954
—, —, process for, 1,247,060; 1,251,954
—, —, sulfuric acid for, 1,247,060
—, —, tar for, 1,251,954
—, —, tobacco for, 1,247,060
—, —, tobacco stems for, 1,247,060
—, —, vegetable matter for, 1,251,954
—, —, wood for, 1,251,954
—, nitrates made with, 1,286,838; 1,288,754; 1,288,755; 1,288,756
—, paper made with, 1,509,273
—, peeled fruit treated with, 1,453,781
—, phenol aldehyde condensate made with, 1,126,926
—, recovery of, apparatus for, 1,215,300
—, —, gas for, 1,215,300; 1,346,967
—, —, peat for, 1,445,423
—, —, process for, 1,215,300
—, —, producer gas for, 1,215,300
—, rubber molds coating composition contg., 1,462,563
—, starch ethers made with, 1,350,820
—, tungsten filament made with, 1,290,017
—, vulcanization accelerator, 1,510,652
—, water, removal from of, process for, 1,499,492
—, —, —, zeolite, artificial, for, 1,499,492
Ammonium copper alginate, mfr. of, process for, 1,162,926
Ammonium copper chloride, see Copper ammonium chloride
Ammonium copper(ic) chloride, heater, chemical, made with, 1,502,744
Ammonium copper compounds, see Copper ammonium
—, *see also Copper ammonium compounds; Cuprammonium*
Ammonium copper cyanide, ammonium sulfate made from, 1,413,762; 1,413,763
—, formation of, 1,413,762; 1,413,763
—, hydrocyanic acid from, 1,413,763
Ammonium copper hydroxide, see Cuprammonium hydroxide
Ammonium copper sulfate, Japanese lacquer dried with, 1,429,542
—, *see also Copper ammonium sulfate*
Ammonium copper sulfide, battery, electric, contg., 1,316,760
Ammonium cupric oxide cellulose, see Cuprammonium cellulose

Ammonium cupro-cyanide, see Ammonium copper cyanide
Ammonium cyanamide, copper cyanamide made with, 1,352,177; 1,352,179
—, mfr. of, ammonium carbonate for, 1,352,177; 1,352,179
—, —, calcium cyanamide for, 1,352,177; 1,352,179
—, —, process for, 1,352,177; 1,352,179
—, preparation of, 1,352,177; 1,352,179
Ammonium cyanate, mfr. of, acetylene for, 1,144,457
—, —, ammonia for, 1,144,457
—, —, ammonium bicarbonate for, 1,221,506; 1,241,919; 1,241,920
—, —, ammonium carbonate for, 1,241,919; 1,241,920
—, —, ammonium chloride for, 1,221,506
—, —, ammonium hydroxide for, 1,144,457
—, —, barium cyanate for, 1,241,919; 1,241,920
—, —, calcium carbide for, 1,144,457
—, —, chromium as catalyst for, 1,144,457
—, —, chromium nitride as catalyst for, 1,144,457
—, —, cobalt as catalyst for, 1,144,457
—, —, cobalt nitride as catalyst for, 1,144,457
—, —, copper as catalyst for, 1,144,457
—, —, copper alloy as catalyst for, 1,144,457
—, —, copper nitride as catalyst for, 1,144,457
—, —, gold as catalyst for, 1,144,457
—, —, gold nitride as catalyst for, 1,144,457
—, —, iridium as catalyst for, 1,144,457
—, —, iridium nitride as catalyst for, 1,144,457
—, —, iron as catalyst for, 1,144,457
—, —, iron nitride as catalyst for, 1,144,457
—, —, manganese as catalyst for, 1,144,457
—, —, manganese nitride as catalyst for, 1,144,457
—, —, palladium as catalyst for, 1,144,457
—, —, palladium nitride as catalyst for, 1,144,457
—, —, potassium cyanate for, 1,241,919; 1,241,920
—, —, process for, 1,144,457; 1,221,506; 1,241,919; 1,241,920
—, —, rhodium as catalyst for, 1,144,457
—, —, rhodium nitride as catalyst for, 1,144,457
—, —, silver as catalyst for, 1,144,457
—, —, silver nitride as catalyst for, 1,144,457
—, —, sodium chloride for, 1,221,506
—, —, sodium cyanate for, 1,221,506
—, —, zinc alloy as catalyst for, 1,144,457
—, urea made with, 1,241,919; 1,241,920
Ammonium cyanide, bactericide made with, 1,227,454
—, calcium hydroxide, action of on, 1,349,750
—, coal gas, recovery from of, apparatus for, 1,487,768
—, —, —, process for, 1,487,768
—, copper made with, 1,178,081
—, formation of, 1,349,750
—, fungicide made with, 1,227,454
—, gold made with, 1,178,081; 1,233,363
—, mfr. of, apparatus for, 1,125,208; 1,291,660
—, —, coke retort gas for, 1,125,208
—, —, nitrogen for, 1,125,208
—, —, process for, 1,125,208
—, metal, precious, made with, 1,233,363
—, recovery of, process for, 1,178,081
Ammonium cyanide, silver made with, 1,178,081
—, trees, bacteria exterminator for, made with, 1,227,454
—, —, fungi exterminator for, made with, 1,227,454
Ammonium dichromate, catalyst made with, 1,314,952
—, photographic solution contg., 1,300,729
Ammonium dihydrogen phosphate, see Ammonium (dihydrogen) phosphate
Ammonium dimethyl-dithiocarbamate, vulcanization accelerator, 1,513,122
Ammonium dioxide, electroplating process employing, 1,464,149
—, galvanizing process employing, 1,464,149
Ammonium disulfoxyarsenate, mfr. of, 1,424,006
Ammonium dithiocarbamate, vulcanizing accelerator made with, 1,473,285
Ammonium ethyl xanthate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Ammonium ethyl xanthogenate, vulcanizing accelerator, 1,440,961
—, *see also Ammonium ethyl-xanthate*
Ammonium fatty sulfonate, cellulose ether, composition of and, 1,217,028
—, ethyl cellulose, composition of and, 1,217,028
—, filament, artificial, made with, 1,217,028
—, hair, artificial, made with, 1,217,028
—, silk, artificial, made with, 1,217,028
Ammonium ferrocyanide, aluminum oxide made with, 1,162,130
—, ammonium salts made with, 1,162,130
—, mfr. of, carbonate for, 1,259,702
—, —, cyanogen for, 1,259,702
—, —, hydroxide for, 1,259,702
—, —, illuminating gas for, 1,259,702
—, —, iron(ous) chloride for, 1,259,702
—, —, iron(ous) hydroxide for, 1,259,702
—, —, iron(ous) sulfate for, 1,259,702
—, —, process for, 1,259,702
—, sodium ferrocyanide made with, 1,252,742
Ammonium fluoride, acid, see Ammonium bifluoride
—, aluminum fluoride made with, 1,300,110
—, ammonia made from, 1,426,890; 1,428,891
—, ammonium bifluoride from, 1,426,890; 1,426,891
—, ammonium chloride made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, ammonium nitrate made with, 1,511,561
—, ammonium phosphate ($(NH_4)_2HPO_4$), made with, 1,251,742
—, —, ($(NH_4)_3PO_4$), made with, 1,251,742
—, casein glue made with, 1,167,454
—, catalyst in titanium oxide crystallization, 1,389,191
—, clay, action on of, 1,300,110
—, cleaning compound contg., 1,266,713
—, cork preserved by, 1,448,276
—, cryolite, artificial, made with, 1,511,561
—, —, synthetic, made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, fertilizer made with, 1,251,742
—, formation of, 1,426,890; 1,426,891
—, glass etching compound contg., 1,266,713
—, glass etching paste made with, 1,470,772

Ammonium fluoride, hydrochloric acid made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, *a*-hydroxy-acids made with, 1,479,874
—, kaolin, action on of, 1,300,110
—, mfr. of ammonia for, 1,235,552
—, —, apatite for, 1,235,552
—, —, bone for, 1,235,552
—, —, fluosilicic acid, for, 1,235,552
—, —, hydrofluoric acid for, 1,235,552
—, —, phosphate rock for, 1,235,552
—, —, process for, 1,235,552; 1,382,165
—, —, silicon tetrafluoride for, 1,235,552
—, —, sulfuric acid for, 1,235,552
—, metal polish contg., 1,266,713
—, molded article made with, 1,511,003
—, moth repellent made with, 1,494,085
—, paper preserved by, 1,448,276
—, potassium fluoride from, 1,300,110
—, sodium fluoride made with, 1,511,561
—, textile preserved by, 1,448,276
—, wood preserved by, 1,448,276
—, wool, moth repellent made with, 1,494,085
Ammonium fluosilicate, ammonium phosphate ($(NH_4)_2HPO_4$), made with, 1,251,742
—, —, ($(NH_4)_3PO_4$), made with, 1,251,742
—, bleaching composition contg., 1,434,551
—, fertilizer made with, 1,251,742
—, formation of, 1,426,890; 1,426,891
—, —, ammonium carbonate for, 1,357,025
—, —, potassium fluosilicate for, 1,347,025
—, —, process for, 1,357,025
Ammonium fluosulfonate, cork preserved by, 1,448,276
—, paper preserved by, 1,448,276
—, textile preserved by, 1,448,276
—, wood preserved by, 1,448,276
Ammonium formate, carbonaceous matter hydrogenated with, 1,445,423
—, casein glue made with, 1,167,434
—, catalyst, urea made with, 1,292,019
—, colloidal suspensions prepared with, 1,444,257
—, dyeing in presence of, 1,379,381
—, electrolyte contg., 1,404,156
—, formation of, 1,423,753
—, formic acid made with, 1,185,028
—, mfr. of amalgam for, 1,185,028
—, —, ammonia for, 1,212,359
—, —, ammonium hydroxide for, 1,185,028
—, —, apparatus for, 1,185,028; 1,466,626
—, —, blast furnace gas for, 1,466,626
—, —, carbon dioxide for, 1,185,028
—, —, carbon monoxide for, 1,212,359
—, —, charcoal for, 1,466,626
—, —, coal for, 1,466,626
—, —, coke for, 1,466,626
—, —, feldspar for, 1,466,626
—, —, glauconite for, 1,466,626
—, —, iron for, 1,466,626
—, —, iron production by-product, 1,466,626
—, —, mercury for, 1,185,028
—, —, nitrogen for, 1,466,626
—, —, platinum anode for, 1,185,028
—, —, potassium amalgam for, 1,185,028
—, —, potassium silicates for, 1,466,626
—, —, process for 1,185,028; 1,207,567; 1,212,359; 1,445,423; 1,466,626; 1,466,628
—, —, silicates for, 1,466,626
Ammonium formate, mfr. of, sodium aluminate for, 1,466,626
—, —, sodium carbonate for, 1,466,626
—, —, sodium chloride for 1,466,626
—, —, sodium silicate for, 1,466,626
—, —, sodium sulfate for, 1,466,626
—, potassium formate made with, 1,212,359
—, sodium formate made with, 1,212,359
Ammonium fumerate, succinic acid made with, 1,491,465
Ammonium gallate, candy contg., 1,450,865
—, confection contg., 1,450,865
—, lozenge contg., 1,450,865
—, pill contg., 1,450,865
—, powder contg., 1,450,865
—, tablet contg., 1,450,865
Ammonium gallotannate, ink contg., 1,449,067
Ammonium glycerophosphate, hide, bating of using, 1,170,426
—, skins, bating of using, 1,170,426
Ammonium glycocholate, ammonium silver glycocholate made with, 1,161,866
Ammonium glyoxylate, *di*-tartaric acid made with, 1,181,555
—, *meso*-tartaric acid made with, 1,181,555
—, tartrates made with, 1,181,555
Ammonium halide, germicide contg., 1,255,335
—, tetraiodo-hexamethylenetetramine solvent as solutions of, 1,255,335
Ammonium hydrate, see Ammonium hydroxide
Ammonium hydrochloride, see Ammonium chloride
Ammonium hydrogen phosphate, calcium cyanamide and phosphoric acid made with, 1,360,401; 1,360,402
Amonnium hydrogen sodium phosphate, abrasive, etching of using, 1,482,793
—, corundum, etching of using, 1,482,793
—, emery, etching of using, 1,482,793
—, garnet, etching of using, 1,482,793
—, quartz, etching of using, 1,482,793
—, sand, etching of using, 1,482,793
—, silica, etching of using, 1,482,793
—, silicon carbide, etching of using, 1,482,793
—, sodium metaphosphate made from, 1,407,441
—, *see also Microcosmic salt*
Ammonium hydrogen sulfate, see Ammonium bisulfate
Ammonium hydrosulfide, *p*-amino-benzoic acid made with, 1,458,715
—, anthranilic acid made with, 1,458,715; 1,492,664
—, formation of, 1,444,623
Ammonium hydrosulfite, fog screen contg., 1,358,084
"Ammonium hydroxate," see Ammonium hydroxide
Ammonium hydroxide, abrasives, grading of using, 1,519,250
—, acetaldehyde, catalyst for the mfr. of, made with, 1,400,203; 1,400,247
—, acetic acid made with, 1,178,223
—, adhesive made with, 1,237,011; 1,244,463; 1,267,699
—, adhesive, fireproof, made with, 1,248,092
—, adrenal gland principle precipitated with, 1,460,832

Ammonium hydroxide, airplane dope contg., 1,273,213; 1,395,016
—, albumose solution made with, 1,489,181
—, alcohol made with, 1,245,818
—, aldehyde, catalyst for the mfr. of, made with, 1,400,247
—, aldehyde ammonia compound made with, 1,456,702
—, alginates dissolved by, 1,415,850
—, alkali acetyl-salicylate made with, 1,217,862
—, alkali aluminum alginate made with, 1,162,926
—, alkali copper alginate made with, 1,162,926
—, alkali earth acetyl-salicylate made with, 1,217,862
—, alkali earth nitrate made with, 1,507,993
—, alkali nitrate made with, 1,507,993
—, alkali salts separated using, 1,510,046
—, alkali zinc alginate made with, 1,162,926
—, alum made with, 1,277,773
—, alumina made with, 1,494,835
—, aluminum, nickel plated, made with, 1,147,718
—, aluminum chloride made with, 1,277,773
—, aluminum hydroxide made with, 1,274,145; 1,280,636; 1,464,984; 1,493,320; 1,507,993; 1,512,897
—, —, aluminum hydroxide, catalyst, made with, 1,512,897
—, —, non-gelatinous, made with, 1,502,285
—, aluminum hydroxide precipitated by, 1,300,110; 1,333,020; 1,336,508; 1,368,392; 1,386,920
—, aluminum hydroxide prepared with, 1,395,902
—, aluminum oxide made with, 1,162,130; 1,274,145; 1,277,773; 1,280,636; 1,302,852; 1,512,897
—, aluminum sulfate made with, 1,277,773
—, *b*-aminoanthraquinone made with, 1,255,719
—, 2-aminoanthraquinone from, 1,338,363; 1,338,364; 1,340,603
—, 4-amino-S-argento-thiosalicylic acid made with, 1,439,624
—, 4′-amino-4′-chlor-3.3′-dinitro-benzophenone made with, 1,166,808
—, amino compound for silk, degumming made with, 1,254,033
—, amino compound for skin, bating of, made with, 1,254,033
—, amino compound for turkey red dyeing made with, 1,254,033
—, 2-amino-1-hydroxy-benzene-4-sulfonamide made with, 1,325,841
—, ammonia made with, 1,208,242
—, ammonia, anhydrous, from, 1,322,251
—, —, catalyst for the mfr. of, made with, 1,148,570; 1,152,930; 1,386,555
—, ammonium benzyl phthalate made with, 1,485,377; 1,485,378
—, ammonium benzyl succinate made with, 1,485,377; 1,485,379
—, ammonium (mono) borate made from, 1,336,272
—, ammonium carbonate made with, 1,154,145; 1,258,934; 1,360,248
Ammonium hydroxide, ammonium chloride made with, 1,238,916; 1,453,060; 1,464,990; 1,471,926; 1,475,155; 1,475,156; 1,475,157; 1,475,158; 1,489,360
—, ammonium cyanate made with, 1,144,457
—, ammonium formate made with, 1,185,028; 1,423,753
—, ammonium iron(ic) citrate made with, 1,508,448
—, ammonium mercury(ic) nitrate made with, 1,277,172
—, ammonium molybdate made with, 1,250,063
—, ammonium nitrate made with, 1,464,984; 1,494,835; 1,499,544
—, ammonium paratungstate made with, 1,277,475; 1,282,122
—, ammonium phosphate ($(NH_4)_2HPO_4$), made with, 1,264,513; 1,264,514
—, —, ($(NH_4)H_2PO_4$), made with, 1,142,068; 1,151,074; 1,151,633; 1,167,788; 1,264,513; 1,264,514; 1,369,763
—, —, ($(NH_4)_3PO_4$), made with, 1,252,318
—, ammonium picramate made with, 1,472,791
—, ammonium resinate made with, 1,223,480 1,311,965; 1,354,575
—, ammonium salt made with, 1,160,836; 1,162,130
—, ammonium silver glycocholate made with, 1,161,866
—, ammonium sulfate made with, 1,152,244; 1,160,836; 1,294,526; 1,471,926; 1,489,360
—, ammonium sulfate, neutral, made with, 1,310,306; 1,360,785
—, ammonium sulfide made with, 1,502,213
—, ammonium sulfite made with, 1,160,836; 1,503,319
—, ammonium tungstate made with, 1,423,338
—, animal dip made with, 1,509,166
—, anti-dimming composition contg., 1,466,888
—, antimony, production of using, 1,150,787
—, antiseptic made with, 1,145,634; 1,226,394; 1,255,335
—, arsenates, production of using, 1,150,787
—, arsenic, production of using, 1,150,787
—, arsenic compound prepared with, 1,445,685
—, arsenic removed from sodium tungstate solution with, 1,322,485
—, *bis*-*N*-(*p*-arsenophenyl)-glycyl-*m*′-aminophenol made with, 1,280,123
—, *N*-(arsinosophenyl)-glycyl-*m*′-aminophenol made with, 1,280,122
—, *N*-(*p*-arsinosophenyl)-*a*-phenyl-glycinamide made with, 1,280,121; 1,280,126
—, arsono-acetic made with, 1,445,685
—, *N*-(*p*-arsonophenyl)glycinanilide made with, 1,280,121; 1,280,126
—, methyl *N*-(*p*-arsonophenyl)glycine made with, 1,280,119; 1,280,124
—, *N*-(*p*-arsonophenyl)-*a*-phenyl-glycinureide made with, 1,280,119; 1,280,124
—, *N*-(*p*-arsonophenyl)-*a*-phenyl-glycinureide made with, 1,280,120; 1,280,125
—, *N*-(*p*-arsonophenyl)-glycyl-*m*′-aminophenol made with, 1,280,121
—, asphalt emulsified with, Re-15,401 (956,009)
—, audion, electron emitting cathode for, made with, 1,209,324

Ammonium hydroxide, bacteria compost made with, 1,254,366
—, bactericide made with, 1,145,634
—, balata latex, chlorination of using, 1,491,265
—, barium acetyl-salicylate made with, 1,217,862
—, barium sulfate made with, 1,274,145
—, barley-corn glumes, lupuline, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
—, battery, copper oxide electrode for, electrolyte for contg., 1,285,054
—, —, dry, made with, 1,267,620; Re-14,929; 1,500,027
—, —, electric, contg., 1,316,760
—, —, electrolyte for contg., 1,285,054
—, —, Lalande, electrolyte for contg., 1,285,054
—, —, primary, made with, 1,484,781
—, —, storage, electrode for, made with, 1,175,954
—, —, zinc electrode for, electrolyte for contg., 1,285,054
—, battery electrode made with, 1,438,086
—, beer made with, 1,149,704
—, beeswax, emulsions of made with, 1,185,213
—, beeswax saponified with, 1,415,850
—, belting made with, 1,180,902
—, benzene, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, paraffin, separation of from using, 1,520,953
—, —, —, saturated, separation of from using, 1,520,953
—, —, naphtha, petroleum, separation of from using, 1,520,953
—, —, purification of with, 1,276,284
—, *p*-benzylphenyl carbamate made with, 1,252,452
—, binder made with, 1,201,301; 1,509,035
—, bismuth acetyl-salicylate made with, 1,217,862
—, blood albumin glue contg., 1,459,541
—, board made with, 1,245,984
—, boneblack, revivifying of, using, 1,502,076
—, borax, potassium chloride, separation of from using, 1,505,078
—, —, sodium chloride, separation of from, using, 1,505,078
—, borax from sodium pentaborate and, mfr. of, 1,450,975
—, boric acid from borax and, 1,450,975
—, bread made with, 1,190,827
—, briquett made with, 1,452,992
—, building material, waterproofing of, using, 1,177,156
—, butter substitute made with, 1,190,369
—, butylene glycol dinitrate made with, 1,307,033
—, butyric acid made with, 1,178,223
—, calcium, production of using, 1,150,787
—, —, tungsten alloy contg., made with, 1,486,214
—, calcium acetyl-salicylate made with, 1,217,862
Ammonium hydroxide, calcium carbonate made with, 1,178,962; 1,252,318
—, calcium citrate solvent, 1,491,390
—, calcium hydroxide made with, 1,184,320
—, calcium hydroxide, mixing of, apparatus for, 1,324,979
—, calcium phosphate, acid, made with, 1,252,318
—, —, $(Ca(H_2PO_4)_2)$, made with, 1,252,318
—, caoutchouc, *b.g.*-dimethylerythrene, vulcanization of using, 1,149,580
—, —, erythrene, vulcanization of using, 1,149,580
—, —, isoprene, vulcanization of using, 1,149,580
—, carbon, absorbent, made with, 1,519,470
—, —, decolorizing, made with, 1,479,851; 1,521,541
—, —, —, cleaned with, 1,308,826
—, —, —, revivifying of using, 1,502,076
—, —, gas absorbing, made with, 1,519,470
—, —, impregnated, made with, 1,519,470
—, —, reflocculated made with, 1,456,112
—, carbon bisulfide removal from benzene of with, 1,276,284
—, carbon dioxide, gas, removal from of using, 1,154,145
—, carbon dioxide absorbed by, 1,304,932; 1,360,734; 1,425,577; 1,425,579
—, carbon dioxide removed from dolomite by, 1,363,387
—, carbon monoxide, absorption of, using, 1,196,101; 1,207,968
—, —, gas, removal from of, using, 1,154,145; 1,207,968
—, —, hydrogen, removal from of, using, 1,196,101
—, —, oxysulfide, gas, removal from of, using, 1,504,624
—, —, —, hydrogen, removal from of, using, 1,504,624
—, carbon remover made with, 1,160,682; 1,244,114; 1,292,903; 1,368,965; 1,386,337; 1,455,574
—, carbonizing of fibers prevented by, 1,425,520
—, carnauba wax, emulsion of made with, 1,185,213
—, cartridge shell made with, 1,130,304
—, case-hardening using, 1,152,959
—, case-hardening solution contg., 1,348,479
—, casein dissolved with, 1,395,272
—, casein glue made with, 1,157,434
—, casein size made with, 1,506,081
—, casein solvent, 1,420,173; 1,474,502; 1,474,503
—, castor oil, sulfonated, neutralized with, 1,309,292
—, catalyst made with, 1,143,339; 1,314,952; 1,519,470
—, catalyst, aluminum hydroxide as, made with, 1,512,897
—, —, copper as, made with, 1,165,956
—, —, hydrogenation, made with, 1,156,674; 1,174,245; 1,185,075
—, —, nickel as, made with, 1,165,956; 1,185,075
—, —, (for acetaldehyde mfr.), made with, 1,400,203
—, —, (for aldehyde mfr.), made with, 1,400,247
—, —, (for ammonia mfr.), made with, 1,148,570; 1,152,930; 1,400,203

Ammonium hydroxide, catalyst (for hydrogen mfr.), made with, 1,330,772
—, —, (for nitrogen oxides mfr.), made with, 1,207,706; 1,207,707; 1,207,708; 1,211,394
—, —, (for sulfuric acid mfr.), made with, 1,227,044
—, celluloid substitute made with, 1,245,818; 1,245,976; 1,245,983; 1,245,984; 1,275,324; 1,280,862; 1,427,645
—, cellulose, colloidal suspension of, made with, 1,509,035
—, —, fireproofing, of with, 1,318,523; 1,318,524
—, cellulose acetate, dyeing of, using, 1,366,023
—, cellulose dissolved by copper and, 1,390,995
—, cellulose ether made with, 1,188,376
—, cellulose nitrate made with, 1,249,726; 1,307,033
—, cellulose sulfite liquor treated with, 1,467,321
—, cement contg., 1,456,667
—, cement, Portland, waterproof, made with, 1,255,116; 1,285,636
—, cephaeline allyl ether made with, 1,219,575
—, cephaeline amyl ether made with, 1,219,574
—, cephaeline *iso*-amyl ether made with, 1,219,574
—, cephaeline *iso*-butyl ether made with, 1,219,571
—, cephaeline ethyl ether made with, 1,219,572
—, cephaeline propyl ether made with, 1,219,573
—, ceramic ware, gold decorated, made with, 1,438,799
—, cereal, proteid extracted from with, 1,321,479; 1,321,480
—, cereal product of, 1,419,951
—, cerium acetyl-salicylate made with, 1,217,862
—, cerium hydroxide made with, 1,301,151
—, 2-chlor-anthracene made with, 1,434,980
—, 2-chlor-anthraquinone reduced by, 1,434,980
—, *a*-chlor-*a*-ethyl-butyryl chloride made with, 1,493,182
—, chromium compounds made with, 1,228,622
—, clay, deflocculated, made with, 1,184,320; 1,419,952
—, —, Fraddon china, cleaned with, 1,438,587
—, —, —, treated with, 1,438,587
—, —, reflocculated, made with, 1,456,112
—, clay cleaned with, 1,438,587
—, clay deflocculated with, 1,419,951
—, clay deflocculating reagent prepared with, 1,419,951; 1,419,952
—, clay purified with (1,029,579); Re-14,583; 1,385,716
—, clay treated with, 1,438,587
—, cleaner made with, 1,234,266; 1,239,416; 1,270,105; 1,327,631; 1,474,984; 1,514,235
—, cleaning cloth made with, 1,143,614
—, cleaning composition contg., 1,455,350; 1,461,351
—, cloth, fireproofing of with, 1,318,523; 1,318,524
—, coal gas, recovery from of, apparatus for, 1,487,768
—, —, —, process for, 1,487,768
—, coal soluble in, 1,420,754
—, coal treated with, 1,420,754
—, coating composition made with, 1,492,027
—, cobalt made with, 1,487,145
Ammonium hydroxide, cobalt hydroxide made with, 1,135,785
—, cocoa bean, treatment of using, 1,515,947
—, cocoa powder made with, 1,243,244
—, cocoa waste treated with solvent and, 1,386,166
—, cod oil, fatty acid, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, collar, linen, substitute, made with, 1,256,240
—, colloidal suspensions prepared with, 1,444,257
—, color lakes reduced with, 1,434,619
—, coloring matter made with, 1,164,036; 1,164,037
—, color photography employing, 1,443,012
—, compound, $C_{20}H_{10}O_2N_2Br_2$, made with, 1,518,710
—, —, $C_{34}H_{26}O_8N_4S_2$, made with, 1,383,710
—, concrete, waterproof, made with, 1,285,636
—, condensing agent in tanning agent mfr., 1,443,697
—, container, grease-proof paper, made with, 1,474,502; 1,474,503
—, cooling safe made with, 1,518,189
—, copal recovery of using, 1,398,438
—, copper made with, 1,131,986; 1,190,549; 1,238,951; 1,440,186; 1,487,145; 1,508,243; 1,509,774
—, copper catalyst, made with, 1,165,956
—, —, iron, using, 1,484,690
—, —, production of using, 1,150,787; 1,471,514
—, —, steel, using, 1,484,690
—, copper-bearing sand extracted with, 1,335,474
—, copper chloride, action of on, 1,440,186
—, copper(ous) chloride solvent, 1,261,736
—, *copper compound of, see Copper-ammonium salts*
—, copper hydroxide made with, 1,135,785
—, copper hydroxide solvent, 1,261,736
—, copper oxalate solvent, 1,261,736
—, copper oxide made with, 1,238,951; 1,400,203; 1,400,204; 1,400,205
—, copper phosphate solvent, 1,261,736
—, copper separated from iron sulfide with, 1,254,173
—, *copper solutions of, see Cuprammonium solutions*
—, copper solvent, 1,440,186
—, copper sulfate, production of using, 1,150,787
—, copper sulfate solution, foul treatment of with, 1,276,130
—, copper sulfide made with, 1,502,213
—, copper sulfide ore, flotation of, using, 1,203,341
—, copper sulfide separated from gangue with, 1,254,173
—, copper sulfide separated from iron sulfide with, 1,254,173
—, " core oil " made with, 1,201,301
—, corn, proteid extracted from with, 1,321,479; 1,321,480
—, corn oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, cotton, dye of, using, 1,199,273
—, cotton bolls, frost-bitten, treatment of with, 1,166,060

Ammonium hydroxide, cotton bolls, immature, treatment of with, 1,166,060
—, —, unopened, treatment of with, 1,166,060
—, cotton cleaned using, 1,327,631
—, cotton flock made with, 1,249,726
—, cotton seed oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, cream, artificial, made with, 1,190,369
—, cresol-formaldehyde condensate made with, 1,437,726
—, cryolite, artificial, made with, 1,464,990
—, —, synthetic, made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, cuprammonium cellulose made with, 1,456,540
—, cuprammonium hydroxide made with, 1,471,699
—, cuprammonium solutions made with, 1,341,637; 1,456,540
—, cyanogen made with, 1,144,457
—, cyanogen compounds removed from, with ammonium polysulfide, 1,467,193
—, —, with sulfur powder, 1,467,193
—, cyanogen removed from gases with, 1,413,762
—, cylinder, engine, renewing of using, 1,374,321
—, deflocculating material made with, 1,253,556; 1,345,305
—, detergent made with, 1,241,043; 1,241,044; 1,280,698; 1,387,153; 1,395,902; 1,461,351
—, developer for dye contg., 1,311,150
—, 4.4′-diamino-3.3′-dichlor-benzophenone made with, 1,220,248
—, diarylguanidines prepared with, 1,446,818
—, diazo-picramic acid made with, 1,235,253
—, 2.6-dichlor-anthracene made with, 1,434,980
—, dicyandiamide formation from, 1,423,799
—, didymium acetyl-salicylate made with, 1,217,862
—, dihydro-oxycodeinone made with, 1,479,293
—, 2.7-dihydroxynaphthalene and, dyeing with, 1,460,758
—, 3.5-dinitro-arsanilic acid made with, 1,163,496
—, dry battery, depolarizer for made with, 1,288,722
—, dye made with, 1,199,273; 1,222,433
—, dye developer contg., 1,311,150
—, dyeing, vat, using, 1,148,966
—, dye preparation contg., 1,289,968
—, dyeing solution contg. 1,419,497
—, dyestuff made with, 1,144,181; 1,144,325; 1,150,675; 1,202,821; 1,234,994; 1,266,577; 1,280,648; 1,281,938; 1,383,710; 1,453,021; 1,461,435; 1,518,710
—, dyestuff recovered using, 1,303,426
—, electrode made with, 1,492,302
—, electrolyte contg., 1,419,360
—, electrolyte prepared with, 1,404,156
—, emery, grading of using, 1,519,250
—, emulsion, bituminous, prepared with, 1,408,224
—, —, breaking of using, 1,500,202
—, —, internal combustion engine cooled by, 1,304,399
—, —, oily, made with, 1,201,301
—, emulsion on film sensitized with, 1,383,460
Ammonium hydroxide, emulsion separated using, 1,474,670
—, enamel made with, 1,244,463
—, enamel, baked, remover, made with, 1,204,851
—, enamel remover made with, 1,495,547
—, engine, internal combustion, coating for cylinder of, contg., 1,292,903
—, ethyl alcohol from cellulose sulfite liquor and, 1,320,043
—, ethyl-α-(diethylaminoethyl)-acetoacetate made with, 1,429,922
—, ethylene glycol dinitrate made with, 1,307,033
—, ethyl tropinone-carboxylate made with, 1,420,900
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, —, bleaching of using, 1,289,803
—, —, coating for, made with, 1,316,913
—, —, colloid, treated made with, 1,256,240
—, —, printing composition for, made with, 1,164,036; 1,164,037
—, —, stiffener for, made with, 1,517,520
—, —, water resisting contg., 1,313,658
—, fabric fireproofed with, 1,261,736
—, factory sewage treatment of with, 1,139,778
—, fat, emulsion of made with, 1,185,213; 1,230,599
—, fatty acid made with, 1,178,223
—, fatty acids, cod oil, removal from of, using, 1,247,516
—, —, corn oil, removal from of, using, 1,247,516
—, —, cotton seed oil, removal from of, using, 1,247,516
—, —, fish oil, removal from of, using, 1,247,516
—, —, marine animal oil, removal from of, using, 1,247,516
—, —, menhaden oil, removal from of, using, 1,247,516
—, —, oil, vegetable, removal from of, using, 1,247,516
—, —, whale oil, removal from of using, 1,247,516
—, feathers, dyed using, 1,460,758
—, feldspar, reflocculated, made with, 1,456,112
—, felt, stiffener for, made with, 1,517,520
—, ferberite reclaimed with, 1,293,402; 1,293,403; 1,293,404
—, fermentation, acid, using, 1,123,920
—, ferro-molybdenum made with, 1,278,408
—, fertilizer made with, 1,172,021; 1,221,979; 1,222,433; 1,254,366; 1,360,248
—, fertilizer treated of with, 1,139,778
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, —, animal, treatment of using, 1,197,495
—, —, (spinnable), made with, 1,201,101
—, filament made with, 1,180,902
—, filler made with, 1,242,480
—, film, motion picture, colored, made with, 1,308,538
—, finish remover made with, 1,140,449; 1,147,852; 1,160,394
—, fire extinguisher made with, 1,199,087; 1,199,088; 1,199,089; 1,199,090; 1,248,092

Ammonium hydroxide, fireproofing made with, 1,248,092; 1,261,736; 1,273,213; 1,318,523; 1,318,524
—, fireproofing solution from magnesium chloride and, 1,338,322
—, fireproofing solution from zinc chloride and, 1,338,322
—, fish oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, —, —, catalyst for, made with, 1,174,245
—, flax, retting of using, 1,374,941
—, floor covering made with, 1,245,984; 1,466,241
—, flooring made with, 1,491,265
—, flotation agent contg., 1,417,261; 1,417,262; 1,417,263
—, flotation process using, 1,203,341; 1,417,262; 1,417,263
—, fluosilicates decomposed by, 1,426,890; 1,426,891
—, fodder made from straw with, 1,442,321; 1,442,322
—, fog, dispelling of using, 1,512,783
—, foods bleached with, 1,412,523
—, food product made with, 1,213,545; 1,245,818; 1,275,324
—, food treated with, 1,412,523
—, formaldehyde made with, 1,423,753
—, formaldehyde, catalyst for the mfr. of, made with, 1,400,247
—, formation from nitrogen, 1,465,310
—, formic acid made with, 1,178,223; 1,185,028; 1,423,753
—, fuel made with, 1,509,035
—, fuel, liquid, made with, 1,488,009; 1,495,094
—, fungicide made with, 1,501,427
—, fur dyed using, 1,434,449; 1,460,758
—, fur dyeing bath contg., 1,466,747
—, furniture polish made with, 1,350,537
—, gas, carbon monoxide, removal of from, using, 1,207,968
—, —, carbon oxysulfide, removal of from, using, 1,504,624
—, —, hydrogen sulfide, removal of from, using, 1,160,375
—, gas mantles made with, 1,436,296
—, gas purified with, 1,349,750
—, gilsonite distillation product, 1,438,590
—, glass, gold decorated, made with, 1,438,799
—, glass coloring of with, 1,277,172
—, glue made with, 1,285,474; 1,329,599; 1,459,541
—, glue, vegetable, made with, 1,357,310
—, gold, ceramic ware decorated with, made with, 1,438,799
—, —, glass decorated with, made with, 1,438,799
—, —, production of using, 1,150,787; 1,190,549
—, gold leaf, paper, attaching to of, using, 1,374,492
— graphite, deflocculated, made using, 1,223,350; 1,253,556
—, —, reflocculated, made with, 1,456,112
—, grass, treatment of, using, 1,189,756
—, grease, emulsion of made with, 1,185,213
—, guanidine made with, 1,440,063
—, gums, recovery of using, 1,398,438
Ammonium hydroxide, gutta percha, latex, chlorination of, using, 1,491,265
—, hair dyed using, 1,434,449; 1,460,758
—, hair made with, 1,488,101
—, hare skin, treatment of with, 1,488,101
—, hexamethylenetetramine made with, 1,123,920; 1,213,045; 1,345,305; 1,416,606; 1,423,753; 1,459,971
—, hexamethylenetetramine periodide made with, 1,226,394
—, hirsute, treatment of using, 1,197,495
—, hop beverage made with, 1,149,704
—, horn substitute made with, 1,395,834
—, huebnerite reclaimed with, 1,293,402; 1,293,403; 1,293,404
—, hydrazine hydrochloride made with, 1,480,166
—, hydrocarbon, aromatic, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, —, paraffin, separation of, from using, 1,520,953
—, —, —, —, saturated, separation of from using, 1,520,953
—, —, —, naphtha, petroleum, separation of from using, 1,520,953
—, —, —, purification of with, 1,276,284
—, —, naphthene, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using, 1,520,953
—, —, paraffin, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using, 1,520,953
—, —, saturated, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using, 1,520,953
—, —, treatment of with, 1,277,605
—, —, unsaturated, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, —, paraffin, separation of from using, 1,520,953
—, —, —, —, saturated, separation of from using, 1,520,953
—, —, —, naphtha, petroleum separation of from using, 1,520,953
—, hydrochloric acid made with, 1,475,155; 1,475,156; 1,475,157; 1,475,158
—, hydrocyanic acid made with, 1,144,457

Ammonium hydroxide, hydrogen, carbon monoxide, removal of from, using, 1,196,101
—, —, carbon oxysulfide, removal of from, using, 1,504,624
—, —, catalyst for the mfr. of, made with, 1,330,772
—, hydrogenation, catalyst for, made with, 1,156,674; 1,174,245; 1,185,075
—, hydrogenation process using, 1,247,516
—, hydrogen sulfide, gas, removal from of, using, 1,160,375
—, hydrogen sulfide absorbed by, 1,360,734
—, hydrogen sulfide removal from benzene of with, 1,276,284
—, hydroxides, metallic, precipitated by, 1,386,920
—, hydroxides precipitated by, 1,376,153
—, hypochlorous acid, action of on, 1,378,644
—, illuminating oil made with, 1,277,605
—, indophenol precipitated by, 1,465,853
—, ink contg., 1,309,292
—, ink, printing, made with, 1,231,617
—, ink eradicator made with, 1,438,881
—, ink resistant to, 1,420,289
—, insecticide made with, 1,276,153; 1,501,427; 1,509,166
—, insoluble soaps peptized with, 1,428,258
—, insulating composition contg., 1,456,667
—, insulation, electric, made with, 1,183,423; 1,245,976; 1,245,980; 1,245,981; 1,245,984; 1,423,985
—, —, heat, made with, 1,456,667; 1,509,035
—, intensifying mercurized photographic images with, 1,433,806
—, inuline prepared with, 1,399,544
—, iodine compounds made with, 1,509,035
—, iron made with, 1,489,360
—, iron, coloring of, using, 1,501,425
—, —, copper coating on, using, 1,484,690
—, —, nickel coating on, using, 1,484,690
—, —, production of using, 1,150,787
—, —, tungsten alloy contg., made with, 1,486,214
—, iron alginate gel prepared with, 1,415,849
—, iron alloy made with, 1,185,187
—, iron alloy, nickel in, made with, 1,185,187
—, iron(ic) chloride made with, 1,501,587
—, iron hydroxide made with, 1,135,785
—, iron hydroxide precipitated with, 1,342,834
—, iron(ic) hydroxide made with, 1,280,636; 1,489,360; 1,501,587
—, iron(ous) hydroxide made with, 1,334,722
—, iron molybdate made with, 1,278,408; 1,386,555
—, iron(ic) oxide made with, 1,280,636; 1,489,360
—, iron(ic) sulfate made with, 1,280,636
—, iron sulfide made with, 1,502,213
—, iron vanadate, production of using, 1,471,514
—, ivory substitute made with, 1,245,976
—, japan contg., 1,294,422; 1,294,627; 1,357,688
—, japan substitute made with, 1,244,463
—, kangaroo skin, treatment of with, 1,488,101
—, lacquer made with, 1,245,818; 1,245,981; 1,245,982; 1,275,324; 1,427,645
—, lake made with, 1,383,710; 1,434,619; 1,445,331; 1,512,897
Ammonium hydroxide, lamp, electric, filament for, made with, 1,201,611
—, —, —, silvering of, using, 1,486,804
—, lampblack, deflocculated, made using, 1,223,350
—, —, reflocculated, made with, 1,456,112
—, lanolin made with, 1,194,013
—, lard substitute made with, 1,203,905
—, latex preservative, 1,443,149
—, lead, red, reflocculated, made with, 1,456,112
—, lead hydroxide made with, 1,135,785
—, lead sulfide made with, 1,502,213
—, lead sulfide ore, flotation of, using, 1,203,341
—, lead sulfide separated from gangue with, 1,254,173
—, lead sulfide separated from iron sulfide with, 1,254,173
—, leather made with, 1,488,101
—, leather, artificial, made with, 1,140,174; 1,180,902; 1,245,977; 1,275,324; 1,316,913; 1,365,981; 1,427,645
—, —, glazed kid, made using, 1,345,430
—, —, seasoning of, using, 1,345,430
—, —, waterproofing for, made with, 1,223,480
—, leather substitute made with, 1,256,240
—, leather treated with compound contg., 1,265,648
—, legume, proteid extracted from with, 1,321,479; 1,321,480
—, lense, glass, refractive index of changed with, 1,317,481
—, lignoprotein solvent, 1,464,949
—, linoleum substitute made with, 1,245,978; 1,245,984; 1,427,645
—, linseed oil, recovery of using, 1,398,438
—, lithium acetyl-salicylate made with, 1,217,862
—, lithopone, reflocculated, made with, 1,456,112
—, lubricant made with, 1,395,902
—, lupiline, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, lutidine made with, 1,274,998; 1,274,999
—, magnesium, production of using, 1,150,787
—, magnesium acetyl-salicylate made with, 1,217,862
—, magnesium carbonate, basic, made with, 1,163,475
—, magnesium hydroxide dissolved by, 1,338,322
—, machine oil, emulsion of, made using, 1,230,599
—, manganese dioxide made with, 1,212,334
—, mfr. of, air for, 1,465,310; 1,480,291
—, —, aluminum silicate for, 1,465,310; 1,480,291
—, —, ammonium chloride for, 1,238,916
—, —, apparatus for, 1,193,763; 1,465,310; 1,504,385
—, —, bauxite for, 1,465,310; 1,480,291
—, —, bentonite for, 1,465,310; 1,480,291
—, —, calcium carbonate for, 1,504,385
—, —, calcium chloride for, 1,504,385
—, —, calcium hydroxide for, 1,238,916
—, —, calcium oxide for, 1,504,385
—, —, carbon for, 1,465,310; 1,480,291
—, —, charcoal for, 1,465,310; 1,480,291
—, —, clay for, 1,465,310; 1,480,291; 1,504,385
—, —, clay, ball, for, 1,465,310; 1,480,291
—, —, clay, bentonitic, for, 1,465,310; 1,480,291

Ammonium hydroxide, mfr. of, coal, bituminous, for, 1,193,763
—, —, —, semi-bituminous, for, 1,193,763
—, —, coke for, 1,465,310
—, —, gas carbon for, 1,465,310; 1,480,291
—, —, gilsonite for, 1,438,590
—, —, graphite for, 1,465,310; 1,480,291
—, —, kaolin for, 1,465,310; 1,480,291
—, —, leverrierite for, 1,465,310; 1,480,291
—, —, limestone for, 1,504,385
—, —, nitrogen for, 1,465,310; 1,480,291
—, —, peat for, 1,504,385
—, —, process for, 1,193,763; 1,465,310; 1,480,291; 1,504,385
—, —, saturator for, 1,331,784
—, —, water for, 1,480,291
—, —, xyloid lignite for, 1,504,385
—, marine animal oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, match made with, 1,138,146
—, material, resinous, made with, 1,305,790
—, menhaden oil, fatty acids, removal of from, using, 1,257,516
—, —, hydrogenation of, using, 1,247,516
—, metal, production of using, 1,150,787
—, metal arsenates, production of using, 1,150,787
—, metal hydroxide made with, 1,400,247
—, metallic hydroxides precipitated with, 1,395,902
—, metal sulfates, production of using, 1,150,787
—, metal sulfide made with, 1,502,213
—, metal sulfide separated from gangue with, 1,254,173
—, metal sulfide separated from iron sulfide with, 1,254,173
—, metal surfaces, repairing of using, 1,374,321
—, metal tellurates, production of using, 1,150,787
—, millerine contg., 1,512,783
—, mirror silvered with composition contg., 1,324,690
—, molded article made with, 1,395,834; 1,427,645; 1,459,541; 1,511,003
—, molybdenum compound made with, 1,250,063
—, molybdenum from ore, reclaiming by, 1,293,402; 1,293,403; 1,293,404
—, moth repellent made with, 1,494,085; 1,515,182
—, motion picture made with, 1,216,695
—, naphtha, emulsion of, made using, 1,230,599
—, —, petroleum, benzene, separation of from using, 1,520,953
—, —, —, hydrocarbon, aromatic, separation of from using, 1,520,953
—, —, —, —, unsaturated, separation of from using, 1,520,953
—, —, —, toluene, separation of from using, 1,520,953
—, —, —, xylene, separation of from using, 1,520,953
—, 2-naphthol-6-sulfonic acid made with, 1,383,710
—, 2-naphthol-8-sulfonic acid made with, 1,383,710
—, nickel made with, 1,212,334; 1,487,145
Ammonium hydroxide, nickel, catalyst, made with, 1,165,956; 1,185,075; 1,320,039
—, —, coating with, using, 1,207,218
—, —, iron, using, 1,484,690
—, —, iron alloy contg., made with, 1,185,187
—, —, production of using, 1,150,787
—, —, steel, using, 1,484,690
—, nickel hydroxide made with, 1,135,785; 1,143,343; 1,296,496
—, nickel hydroxide, action on of, 1,296,496
—, nickel hydroxide coated electrode prepared with, 1,442,238
—, nickel oxide made with, 1,400,203; 1,400,204; 1,400,205
—, nickel steel made with, 1,185,187
—, nickel sulfide made with, 1,502,213
—, nicotin made with, 1,196,184
—, nicotin solvent, 1,196,184
—, nitric acid made with, 1,325,168
—, 2-nitroanisole made with, 1,325,168
—, 4-nitroanisole made with, 1,325,168
—, 3-nitroarsanilic acid made with, 1,163,496
—, nitrobenzene made with, 1,325,168
—, nitro compounds made with, 1,325,168
—, nitrogen monoxide made with, 1,499,544
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,207,706; 1,207,707; 1,207,708; 1,211,394
—, nitrogen trichloride made with, 1,378,644; 1,510,132
—, nitrogen washed with, 1,304,932
—, nitrosamine dyes printed with, 1,426,299
—, nitrostarch made with, 1,211,761
—, ochre, reflocculated, made with, 1,456,112
—, oil, drying, recovery of using, 1,398,438
—, —, mineral, emulsion of, made using, 1,230,599
—, —, —, purification of, using, 1,500,202
—, —, recovery of using, 1,398,438
—, —, vegetable, hydrogenation of, using, 1,247,516
—, —, —, removal of from, using, 1,247,516
—, oil cloth, imitation, made with, 1,140,174
—, oils and gums recovered with, 1,398,438
—, oil-proofing composition made with, 1,513,139
—, oils treated with, 1,394,486
—, oils washed using, 1,438,764
—, opossum skin, treatment of with, 1,488,101
—, oxycellulose solvent, 1,169,756
—, paint made with, 1,164,036; 1,164,037; 1,231,617; 1,242,480
—, paint, fireproof, made with, 1,248,092
—, —, recovery of using, 1,398,438
—, paint remover made with, 1,143,130; 1,177,938; 1,204,851; 1,219,559; 1,230,668; 1,474,984; 1,495,547
—, paper made with, 1,153,883; 1,242,480; 1,502,686
—, paper, coated, made with, 1,147,996; 1,513,139
—, —, fireproof sizing for, made with, 1,248,092
—, —, glazed, made with, 1,209,222
—, —, gold leaf, attaching of to, using, 1,374,492
—, —, grease-proof, made with, 1,420,173; 1,474,502; 1,474,503; 1,476,562
—, —, paraffin, made with, 1,239,618
—, —, photographic, made with, 1,504,150

Ammonium hydroxide, paper, rubber-latex, made with, 1,497,146
—, —, sizing for, made with, 1,223,480
—, —, stiffener for, made with, 1,517,520
—, —, waterproof, made with, 1,476,562
—, paper coloring of with, 1,277,172
—, paper de-inked with, 1,421,195
—, paper pulp made with, 1,222,433
—, paper waterproofed with, 1,130,304; 1,266,955; 1,266,956
—, papier mache, coating of using, 1,164,710
—, paracoumarone, recovery of using, 1,398,438
—, paraffin, emulsion of, made using, 1,185,213; 1,230,599
—, paraffin powder made with, 1,239,618
—, paste-board made with, 1,153,883
—, pectin product made with, 1,497,884
—, petrolatum, liquid, made with, 1,240,792
—, petroleum, treatment of with, 1,277,605
—, phenol aldehyde condensate made with, 1,187,230; 1,187,232; 1,209,165; 1,210,982; 1,252,507; 1,401,953; 1,418,718; 1,483,368
—, phenol aldehyde condensate substitute made with, 1,245,976
—, *p*-phenylenediamine from *p*-dichlor-benzene by, 1,445,637
—, phenyl mercaptan removal from benzene of with, 1,276,284
—, phosphates precipitated with, 1,322,485
—, phosphorus removed from sodium tungstate solution with, 1,322,485
—, photograph, colored, made with, 1,256,675
—, photographic image, colored, use of in making, 1,450,412
—, photographic image treated with, 1,389,742
—, photographic negative, intensifying of, using, 1,245,152
—, photographic paper developed with, 1,444,469
—, photography, color, process for using, 1,516,824
—, picoline made with, 1,274,998; 1,274,999
—, pigment made with, 1,231,617; 1,234,260; 1,240,405; 1,242,486; 1,504,673
—, pigment, reflocculated, made with, 1,456,112
—, pitch emulsified with, 1,440,355
—, plaster, waterproofing of, using, 1,177,156
—, plastic made with, 1,169,756; 1,180,902; 1,245,981; 1,245,984; 1,398,438
—, plastic, coating of using, 1,164,710
—, plate, photographic, color-sensitizing of, with, 1,320,176
—, platinum group metals, production of using, 1,150,787
—, polish made with, 1,239,416; 1,301,823; 1,325,686; 1,457,080; 1,514,235; 1,515,870; 1,515,950
—, polish emulsified with, 1,433,887
—, porcelain coloring of with, 1,277,172
—, porous material made with, 1,518,189
—, potassium acetyl-salicylate made with, 1,217,862
—, potassium aluminum sulfate made with, 1,277,773
—, potassium bichromate, recovery of using, 1,201,392
—, potassium chloride made with, 1,277,773
Ammonium hydroxide, potassium chloride, borax, separation from of, using, 1,505,078
—, —, potassium sulfate, separation from of, using, 1,505,078
—, —, Searles Lake brine, separation from of, using, 1,505,078
—, —, sodium carbonate, separation from of, using, 1,505,078
—, —, sodium chloride, separation from of using, 1,505,078
—, —, sodium sulfate, separation from of, using, 1,505,078
—, potassium compound made with, 1,277,773
—, potassium compounds recovered with, 1,344,830
—, potassium cyanate made with, 1,144,457
—, potassium nitrate made with, 1,247,145; 1,507,993
—, potassium nitrate, sodium nitrate, separation of from using, 1,510,046
—, potassium salts made with, 1,509,035
—, potassium sulfate made with, 1,277,773
—, potassium sulfate, sodium chloride, separation of from, using, 1,505,078
—, precipitating hydroxides with, 1,330,772
—, printing paste made with, 1,157,705
—, printing plate made with, 1,433,806; 1,508,089
—, propionic acid made with, 1,178,223
—, propylene glycol dinitrate made with, 1,307,033
—, proteid made with, 1,275,324
—, proteid, vegetable, made with, 1,275,308
—, proteid product made with, 1,245,818; 1,245,976; 1,245,981
—, pungent compound made using, 1,503,631
—, pyridine made with, 1,274,998; 1,274,999
—, quinoline made with, 1,274,998; 1,274,999
—, rabbit skin, treatment of with, 1,488,101
—, record, disk, made with, 1,315,137
—, reflocculated material made with, 1,456,112
—, refractory made with, 1,486,214
—, refrigerating apparatus using, 1,512,623
—, regenerating, calcium hydroxide for, 1,349,750
—, resins, emulsion of, made using, 1,230,599
—, resins, recovery of using, 1,398,438
—, resins dissolved with, 1,423,985
—, resins extracted from wood by, 1,334,679
—, resistors coated with boron trioxide by use of, 1,365,331
—, rifle barrel, cupro-nickel fouling in, using, 1,484,690
—, road paving made with, 1,201,301
—, roasted starch dissolved in, clay deflocculated with, 1,456,111
—, rodentia skin, treatment of with, 1,488,101
—, rosin made with, 1,511,461
—, rosin, recovery of using, 1,398,438
—, rosin solvent, 1,410,211
—, rubber, artificial, made with, 1,275,324
—, —, hard, made with, 1,200,692; 1,507,594
—, —, —, substitute, made with, 1,315,137
—, —, imitation, made with, 1,245,818
—, —, Para, vulcanization of using, 1,149,580
—, —, plantation, vulcanization of using 1,149,580

Ammonium hydroxide, rubber, reclaiming of, using, 1,510,706
—, —, spongy, made with, 1,156,184
—, —, vulcanized, colloidal, made with 1,443,149; 1,502,686
—, —, vulcanization of using, 1,238,236
—, rubber article made with, 1,491,265
—, rubber latex, artificial, made with, 1,513,139
—, —, chlorination of, using, 1,491,265
—, —, *Hevea Brasiliensis,* coagulation of using, 1,145,351
—, —, Para, coagulation of using, 1,145,351
—, rubber molds coating composition contg., 1,462,563
—, rubber substitute made with, 1,159,258; 1,180,902; 1,245,976; 1,245,979; 1,245,984; 1,427,645; 1,471,059
—, rubber surfaces, lubricant for, 1,519,547
—, rust preventing solution contg., 1,433,226
—, safety oil made with, 1,277,605
—, sandarac, recovery of using, 1,398,438
—, sand colored using, 1,233,501
—, scheelite reclaimed with, 1,293,402; 1,293,403; 1,293,404
—, Searles Lake brine, potassium chloride, separation of from, using, 1,505,078
—, —, sodium chloride, separation of from, using, 1,505,078
—, sewage treatment of with, 1,139,778
—, shellac dissolved with, 1,423,985
—, shellac substitute made with, 1,315,137
—, shellac treated with, 1,374,492
—, shoe polish, white, made with, 1,249,742
—, shoe stiffener made with, 1,517,520
—, shortening composition made with, 1,203,905
—, sienna, reflocculated, made with, 1,456,112
—, silica made with, 1,274,145
—, silicon, tungsten alloy contg., made with, 1,486,214
—, silicon dioxide made with, 1,274,145; 1,501,587
—, silk, artificial, made with, 1,169,756; 1,427,699
—, —, dyeing of, using, 1,199,273
—, —, raw, treatment of, using, 1,491,228
—, silk cleaned with, 1,327,631
—, silk treated with, 1,397,875; 1,446,834
—, silver made with, 1,190,549
—, silver, gelatin emulsion of, recovery from of, using, 1,234,390
—, —, photographic emulsion of, recovery from of, using, 1,234,390
—, silver acetyl-salicylate made with, 1,217,862
—, silver bromide solvent, 1,190,549
—, silver chloride solvent, 1,190,549
—, silver iodide solvent, 1,190,549
—, size made with, 1,506,081
—, sizing made with, 1,226,195
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, skins dyed with, 1,416,646; 1,434,449; 1,460,758
—, skins seasoned with, 1,345,429
—, sludge contg., thickening, 1,445,917
—, sludge sulfonic acid tar treated with, 1,271,387
Ammonium hydroxide, soap made with, 1,196,274; 1,239,618; 1,149,952
—, soap, laundry, made with, 1,241,043
—, soap solution contg., 1,432,102
—, sodium acetyl-salicylate made with, 1,217,862
—, sodium acid sulfate action on of, 1,294,526
—, sodium anthranilate made with, 1,458,715
—, sodium bicarbonate made with, 1,303,167
—, sodium bichromate, recovery of using, 1,201,392
—, sodium carbonate made with, 1,154,145
—, sodium carbonate, potassium chloride, separation of from, using, 1,505,078
—, —, sodium chloride, separation of from using, 1,505,078; 1,510,046
—, —, sodium sulfate, separation of from using, 1,505,078; 1,510,046
—, sodium chloride, borax, separation from of using, 1,505,078
—, —, potassium chloride, separation of from, using, 1,505,078
—, —, potassium sulfate, separation from of, using, 1,505,078
—, —, Searles Lake brine, separation from of, using, 1,505,078
—, —, sodium carbonate, separation from of, using, 1,505,078; 1,510,046
—, sodium citrate made with, 1,491,390
—, sodium fluoride made with, 1,464,990
—, sodium hydroxide made with, 1,238,916
—, sodium molybdate made with, 1,250,063
—, sodium nitrate made with, 1,307,033
—, sodium nitrate, potassium nitrate, separation of from using, 1,510,046
—, sodium sulfate, potassium chloride, separation of from, using, 1,505,078
—, —, sodium carbonate, separation of from using, 1,510,046
—, —, sodium chloride, separation of from, using, 1,505,078; 1,510,046
—, sodium tungstate made with, 1,322,485; 1,399,705
—, soya bean, proteid extracted from with, 1,321,479; 1,321,480
—, starch, fireproof, made with, 1,248,092
—, starch ethers made with, 1,350,820
—, steel made with, 1,489,360
—, steel, coloring of, using, 1,501,425
—, —, copper coating on, using, 1,484,690
—, —, nickel coating on, using, 1,484,690
—, —, quenching of, solution contg., 1,304,946
—, steering wheel rim made with, 1,520,191
—, stone artificial, made with, 1,454,780; 1,456,667
—, —, —, coating of using, 1,164,710
—, —, waterproofing of, using, 1,177,156
—, straw, treatment of, using, 1,189,756
—, strontium, production of using, 1,150,787
—, strontium acetyl-salicylate made with, 1,217,862
—, sulfonated oils neutralized with, 1,433,887
—, sulfur made with, 1,472,791
—, sulfur, reflocculated, made with, 1,456,112
—, sulfuric acid, catalyst for the mfr. of made with, 1,227,044
—, sulfuric acid in foods neutralized with, 1,412,523

Ammonium hydroxide, sulfuric acid in titanium hydroxide neutralized with, 1,361,867
—, sulfur removed from oils by hydrogen sulfide and, 1,357,224
—, sulfur removed from petroleum with, 1,413,005
—, sulfur trioxide, catalyst for the mfr. of, made with, 1,227,044
—, sunflower oil, emulsion of, made using, 1,230,599
—, tallow, emulsions of, made with, 1,185,213
—, tannery sewage treatment of with, 1,139,778
—, tanning compound made with, 1,437,726; 1,443,697; 1,469,044
—, tar made with, 1,471,926
—, tellurium, production of using, 1,150,787
—, testilupine, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, testin acid, barley-corn glumes, removal from of, using, 1,517,650
—, —, yeast, removal from of, using, 1,517,650
—, 3.5.3′-5.′-tetramino-4.4′-di(methylamino)-arsenobenzene, action on of, 1,265,864; 1,265,865
—, textile, waterproofing for, made with, 1,223,480
—, therapeutic compound made with, 1,226,394
—, thiocyanates removal from benzene of with, 1,276,284
—, thio-protein compounds made with, 1,145,634
—, thorium, tungsten alloy contg., made with, 1,486,214
—, thorium compound made with, 1,366,128
—, thorium hydroxide made with, 1,182,880; 1,307,152; 1,366,128
—, thorium nitrate made with, 1,366,128
—, thorium oxalate made with, 1,182,880
—, thorium oxide made with, 1,182,880; 1,366,128
—, thorium pyrophosphate made with, 1,182,880
—, thorium sulfate made with, 1,182,880
—, thorium-X, made using, 1,151,187
—, thread made with, 1,180,902
—, thyroxin dissolved by, 1,392,768
—, tile made with, 1,245,984
—, titanium dioxide made with, 1,501,587
—, titanium hydroxide made with, 1,504,673
—, titanium oxide made with, 1,504,673
—, titanium oxide pigment made with, 1,504,673
—, tobacco, treatment of, using, 1,168,029
—, toilet cream made with, 1,259,618
—, toluene, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, paraffin, separation of from using, 1,520,953
—, —, —, saturated, separation of from using, 1,520,953
—, —, naphtha, petroleum, separation of from using, 1,520,953
—, tomato plants, nail head rust on spray for contg., 1,520,197
—, tonka bean extract made with, 1,515,714
—, tooth paste contg., 1,377,780
—, trichlor-ethylene made with, 1,343,716
—, trinitrotoluene made with, 1,307,033
Ammonium hydroxide, tube, paper, water-proof, made with, 1,130,304
—, tung oil, recovery of using, 1,398,438
—, tungsten made with, 1,483,567
—, tungsten alloy, calcium in, made with, 1,486,214
—, —, iron in, made with, 1,486,214
—, —, silicon in, made with, 1,486,214
—, —, thorium, in made with, 1,486,214
—, tungsten filament made with, 1,157,288; 1,290,017
—, tungsten from ore, reclaiming by, 1,293,402; 1,293,403; 1,293,404
—, tungsten ores decomposed with, 1,388,857
—, tungsten oxide, WO_3, made with, 1,244,082
—, tungsten(ic) oxide dissolved by, 1,299,017
—, tungsten ribbon made with, 1,157,288
—, tungsten trioxide made with, 1,410,584
—, tungsten wire made with, 1,157,288
—, tungstic acid dissolved by, 1,418,081
—, ultramarine blue, reflocculated, made with, 1,456,112
—, undeconyl amide made with, 1,503,631
—, uranium, production of using, 1,471,514
—, uranium hydroxide, production of using, 1,471,514
—, uranium from ore, reclaiming by, 1,293,402; 1,293,403; 1,293,404
—, urea made with, 1,241,919; 1,241,920; 1,344,673
—, vanadium, production of using, 1,471,514
—, vanadium from ore, reclaiming by, 1,293,402; 1,293,403; 1,293,404
—, vanilla bean extract made with, 1,515,714
—, varnish made with, 1,159,258; 1,231,617; 1,245,818; 1,275,324; 1,280,861; 1,398,438; 1,423,985; 1,427,645; 1,431,080
—, varnish, fireproof, made with, 1,248,092
—, —, recovery of using, 1,398,438
—, —, substitute of, made with, 1,315,137
—, —, waterproof, made with, 1,190,765
—, varnish remover made with, 1,143,130; 1,177,938; 1,219,559; 1,230,668; 1,474,984
—, vegetable matter, treatment of, using, 1,189,756
—, viscose, zinc salt of dissolved in, 1,140,174
—, viscose filaments treated with, 1,371,300
—, vulcanization, adhesion prevented during, compound for contg., 1,519,547
—, vulcanization process using, 1,507,594
—, wall covering contg., 1,313,658
—, wall finish made with, 1,477,096
—, washing crystals made with, 1,241,044
—, waterproofing using, 1,177,156; 1,180,902; 1,223,480; 1,273,213
—, waterproofing composition prepared with, 1,460,251
—, water softened using, 1,238,916
—, water treatment of with, 1,139,778
—, wax, emulsion of, made using, 1,230,599
—, whale oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, wolframite reclaimed with, 1,293,402; 1,293,403; 1,293,404
—, wood, fireproofing of with, 1,318,523; 1,318,524

Ammonium hydroxide, wood, waterproofing for, made with, 1,223,480
—, wood coloring of with, 1,277,172
—, wood extracted with, 1,334,679
—, wood preserved using, 1,242,168; 1,510,358
—, wood preserving mixture contg., 1,346,830
—, wood pulp made with, 1,307,033
—, wood treated with, 1,432,937
—, wool, bleaching of, using, 1,217,744
—, —, dyeing of, using, 1,199,273
—, —, moth repellent, made with, 1,494,085
—, —, treatment of using, 1,147,011; 1,197,495
—, wool cleaned using, 1,327,631
—, wool fabric, treatment of with, 1,147,011
—, xylene, hydrocarbon, naphthene, separation of from using, 1,520,953
—, —, —, paraffin, separation of from using, 1,520,953
—, —, —, saturated, separation of from using, 1,520,953
—, —, naphtha, petroleum, separation of from using, 1,520,953
—, yeast made with, 1,499,110; 1,449,127 1,475,471
—, yeast, lupuline, removal of from, using, 1,517,650
—, —, testilupine, removal of from, using, 1,517,650
—, —, testin acid, removal of from, using, 1,517,650
—, yeast food made with, 1,190,827
—, yeast treated with, 1,415,469
—, zinc, production of using, 1,150,787
—, zinc acetyl-salicylate made with, 1,217,862
—, zinc alginate dissolved by, 1,395,016
—, zinc chloride solvent, 1,261,736
—, zinc hydroxide dissolved by, 1,338,322
—, zinc hydroxide solvent, 1,261,736
—, zinc oxide solvent, 1,261,736
—, zinc phosphate solvent, 1,261,736
—, zinc sulfide ore, flotation of, using, 1,203,341
—, zinc sulfide separated from gangue with, 1,254,173
—, —, separated from iron sulfide with, 1,254,173
—, zirconium hydroxide made with, 1,307,881
—, zirconium oxide made with, 1,501,587
—, zirconium oxide precipitated by, 1,340,888
—, zirconium oxide reflocculated, made with, 1,456,112
—, zirconium sulfate (basic), made with, 1,307,881; 1,316,107
—, *see also Ammonia*
Ammonium iodate, bread made with, 1,148,328; 1,148,329
—, wood preservative contg., 1,265,370
Ammonium iodide, catalyst, diphenylamine made with, 1,308,356; 1,392,942
—, cellulose, fireproofing of with, 1,318,523; 1,318,524
—, cloth, fireproofing of with, 1,318,523; 1,318,524
—, diphenylamine made with, 1,308,356; 1,392,942; 1,413,494
—, fireproofing with, 1,318,523; 1,318,524
—, *a*-hydroxy acids made with, 1,479,874
—, iodine-producing tablet contg., 1,429,276
Ammonium iodide, smoke producing compounds contg., 1,339,142; 1,339,147
—, wood, fireproofing of with, 1,318,523; 1,318,524
Ammonium iridium chloride, see Iridium ammonium chloride
Ammonium iron(ic) acetate, blue print paper made with, 1,500,433
Ammonium iron(ic) citrate, blue print paper made with, 1,518,997
—, film, motion picture, colored, made with, 1,170,540
—, light sensitive composition made with, 1,518,997
—, mfr. of, ammonium hydroxide for, 1,508,448
—, —, ammonium iron(ic) sulfate for, 1,508,448
—, —, ammonium oxalate for, 1,508,448
—, —, ammonium salt for, 1,508,448
—, —, ammonium sulfate for, 1,508,448
—, —, calcium citrate for, 1,508,448
—, —, iron(ic) sulfate for, 1,508,448
—, —, process for, 1,508,448
—, paper, photographic, made with 1,126,872
—, "Pellet" paper made with 1,213,925
—, photographic paper made with, 1,213,925; 1,265,464
—, photographic print, colored, made with, 1,247,116
—, photographic screen, colored, made with, 1,161,731; 1,170,540
—, photographic sensitizing preparation contg., 1,126,872
—, photography, color, using, 1,128,389
—, —, process for, using, 1,191,034
Ammonium iron(ous) citrate, photographic paper made with, 1,265,464
Ammonium iron(ic) oxalate, blue print paper made with, 1,518,997
—, film, motion picture, colored, made with, 1,207,527
—, light sensitive composition made with, 1,518,997
—, photograph, colored, made with, 1,256,675
—, —, motion, colored, made with, 1,256,675
—, photographic print, colored, made with, 1,166,121; 1,166,122
—, —, motion, colored, made with, 1,166,121; 1,166,122
Ammonium iron(ic) sulfate, ammonium iron(ic) citrate made with, 1,598,448
—, mfr. of, air for, 1,477,965
—, *see also Iron(ic) ammonium sulfate*
Ammonium lactate, blue print paper made with, 1,500,433
—, bread made with, 1,190,827
—, candy contg., 1,450,865
—, confection contg., 1,450,865
—, dyestuff made with, 1,394,823
—, lozenge contg., 1,450,865
—, pill contg., 1,450,865
—, powder contg., 1,450,865
—, tablet contg., 1,450,865
—, yeast made with, 1,475,494
—, yeast food made with, 1,190,927
Ammonium lead anode, iron, lead coated, made with, 1,505,109
—, lead, iron coated with, made with, 1,505,109

Ammonium magnesium arsenate, airplane dope contg., 1,329,386; 1,393,355
—, cellulose nitrate fireproofed with, 1,329,386; 1,393,355
—, fireproofing composition contg., 1,310,841
Ammonium magnesium chloride, ammonium chloride from, 1,276,499
—, magnesium chloride made from, 1,276,499
—, magnesium chloride, anhydrous, made from, 1,479,982
—, mfr. of, ammonium chloride for, 1,276,499
—, —, magnesium chloride for, 1,276,499
—, —, process for, 1,276,499
—, *see also Magnesium-ammonium sulfate*
Ammonium magnesium phosphate, airplane dope contg., 1,329,386; 1,393,355
—, airplane fabric made with, 1,427,941
—, airplane fabric fireproofed with, 1,427,941
—, balloon fabric made with, 1,427,941
—, cellulose nitrate fireproofed with, 1,329,386; 1,393,355
—, fireproofing contg., 1,316,881
—, fireproofing composition contg., 1,310,841
—, formation of, 1,346,148
—, roofing made with, 1,167,195
—, tent fabric made with, 1,427,941
—, underwriters cloth made with, 1,427,941
Ammonium magnesium sulfate, see Magnesium ammonium sulfate
Ammonium malate, pill contg., 1,450,865
—, candy contg., 1,450,865
—, condenser, electrolytic, made with, 1,412,514
—, confection contg., 1,450,865
—, electrolyte for lightning arresters contg., 1,412,514
—, lightning arrester, electrolytic, made with, 1,412,514
—, lozenge contg., 1,450,865
—, powder contg., 1,450,865
—, rectifier, electrolytic, made with, 1,412,514
—, succinic acid made with, 1,491,465
—, tablet contg., 1,450,865
Ammonium manganese arsenate, airplane dope contg., 1,329,386; 1,393,355
—, cellulose nitrate fireproofed with, 1,329,386; 1,393,355
—, fireproofing composition, 1,310,841; 1,316,881
Ammonium manganese phosphate, airplane dope contg., 1,329,386; 1,393,355
—, cellulose nitrate fireproofed with, 1,329,386; 1,393,355
—, fireproofing contg., 1,316,881
—, fireproofing composition contg., 1,310,841
Ammonium manganite, battery, dry, depolarizer for contg., 1,173,965
Ammonium mercury chloride, see Mercury ammonium chloride
Ammonium mercury(ic) chloride, see Mercury(ic) ammonium chloride
Ammonium mercury(ic) nitrate, glass coloring of with, 1,277,172
—, mfr. of, ammonium hydroxide for, 1,277,172
—, —, mercury(ic) nitrate for, 1,277,172
—, —, process for, 1,277,172
—, —, properties of, 1,277,172
—, paper coloring of with, 1,277,172
Ammonium mercury(ic) nitrate, porcelain coloring of with, 1,277,172
—, wood coloring of with, 1,277,172
Ammonium mercury(ic) salt, glass coloring of with, 1,277,172
—, mfr. of, process for, 1,277,172
—, paper coloring of with, 1,277,172
—, porcelain coloring of with, 1,277,172
—, wood coloring of with, 1,277,172
Ammonium metaphosphate, mfr. of, air for, 1,514,912
—, —, alundum filter for, 1,284,200; 1,514,912
—, —, ammonia for, 1,284,200
—, —, ammonium sulfate for, 1,514,912
—, —, calcium carbide for, 1,514,912
—, —, calcium cyanamide for, 1,514,912
—, —, carbon for, 1,514,912
—, —, coke for, 1,284,200
—, —, earthenware filter for, 1,284,200
—, —, filtrose filter for, 1,284,200
—, —, iron oxide for, 1,514,912
—, —, kieselguhr for, 1,284,200
—, —, lime for, 1,514,912
—, —, nitrogen for, 1,514,912
—, —, oxygen for, 1,514,912
—, —, phosphate rock for, 1,284,200; 1,514,912
—, —, phosphoric acid for, 1,514,912
—, —, phosphorus for, 1,284,200
—, —, phosphorus pentoxide for, 1,284,200; 1,514,912
—, —, porcelain, unglazed, filter, for, 1,284,200
—, —, potassium silicate for, 1,514,912
—, —, process for, 1,284,200; 1,514,912
—, —, silica for, 1,284,200; 1,514,912
—, —, sulfuric acid for, 1,514,912
—, NH_4PO_3, fertilizer made with, 1,194,077
—, —, mfr. of, ammonia for, 1,194,077
—, —, —, phosphorus pentoxide for, 1,194,077
—, —, —, phosphate rock for, 1,194,077
—, —, —, phosphoric acid for, 1,194,077
—, —, —, process for, 1,194,077
—, —, —, water for, 1,194,077
Ammonium metavanadate, anthracene, catalyst for the oxidation of, made with, 1,486,781
—, benzaldehyde, catalyst for the mfr. of, made with, 1,486,781
—, benzoic acid, catalyst for the mfr. of, made with, 1,486,781
—, catalyst, for the mfr. of benzoic acid, made with, 1,486,781
—, —, (for benzaldehyde mfr.), made with, 1,486,781
—, —, (for hydroxy-benzoic acids mfr.), made with, 1,486,781
—, —, (for *p*-nitro-benzaldehye mfr.), made with, 1,586,781
—, —, (for *p*-nitro-benzoic acid mfr.), made with, 1,486,781
—, —, (for phthalic acid mfr.), made with, 1,486,781
—, —, (for salicylic acid), made with, 1,486,781
—, —, (for sulfuric acid mfr.), made with, 1,183,414
—, —, (for the oxidation of anthracene), made with, 1,486,781
—, —, (for cresols oxidation), made with, 1,486,781

Ammonium metavanadate, catalyst (for cumene oxidation), made with, 1,486,781
—, —, (for cymene oxidation), made with, 1,486,781
—, —, (for mesitylene oxidation), made with, 1,486,781
—, —, (for naphthalene oxidation), made with, 1,486,781
—, —, (for toluene oxidation), made with, 1,486,781
—, —, (for xylene oxidation), made with, 1,486,781
—, —, silver vanadate as, made with, 1,183,414
—, cresols, catalyst for the oxidation of, made with, 1,486,781
—, cumene, catalyst for the oxidation of, made with, 1,486,781
—, cymene, for the oxidation of, made with 1,486,781
—, hydroxy-benzoic acid, catalyst for the mfr. of, made with, 1,486,781
—, mesitylene, catalyst for the oxidation of, made with, 1,486,781
—, naphthalene, catalyst for the oxidation of, made with, 1,486,781
—, *p*-nitro-benzaldehyde, catalyst for the mfr. of, made with, 1,486,781
—, *p*-nitro-benzoic acid, catalyst for the mfr. of, made with, 1,486,781
—, phthalic acid, catalyst for the mfr. of, made with, 1,486,781
—, salicylic acid, catalyst for the mfr. of, made with, 1,486,781
—, silver vanadate, catalyst, made with, 1,183,414
—, sulfuric acid, catalyst for the mfr. of, made with, 1,183,414
—, toluene, catalyst for the oxidation of, made with, 1,486,781
—, xylene, catalyst for the oxidation of, made with, 1,486,781
Ammonium metazincate, cellulose, fireproofing of with, 1,318,523; 1,318,524
—, cloth, fireproofing of with, 1,318,523; 1,318,524
—, fireproofing with, 1,318,523; 1,318,524
—, wood, fireproofing of with, 1,318,523; 1,318,524
Ammonium-*m*-methylaminophenyldithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Ammonium methyl-dithiocarbamate, vulcanization accelerator, 1,513,122
Ammonium-*o*-methylphenylenedithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Ammonium-*p*-methylphenylenedithiocarbamate accelerator in rubber vulcanization, 1,440,962; 1,440,963
Ammonium molybdate, ammonia, catalyst for the mfr. of, made with, 1,148,570; 1,152,930; 1,386,555
—, catalyst (for ammonia mfr.), made with, 1,148,570; 1,152,930; 1,386,555
—, dyestuff made with, 1,250,289
—, ferro-molybdenum made with, 1,278,408
—, ink, contg., 1,441,664
Ammonium molybdate, iron molybdate made with, 1,278,408
—, mfr. of, alkali earth carbonate for, 1,250,063
—, —, alkali earth hydroxide for, 1,250,063
—, —, aluminum salt for, 1,250,063
—, —, ammonium carbonate for, 1,250,063
—, —, ammonium hydroxide for, 1,250,063
—, —, calcium carbonate for, 1,250,063
—, —, calcium hydroxide for, 1,250,063
—, —, iron(ic) molybdate for, 1,250,063
—, —, iron(ic) salt for, 1,250,063
—, —, iron(ic) sulfate for, 1,250,063
—, —, molybdenum(ic) nitrate for, 1,250,063
—, —, molybdenum(ic) sulfate for, 1,250,063
—, —, molybdic acid for, 1,250,063
—, —, process for, 1,250,063
—, —, sodium carbonate for, 1,250,063
—, —, sodium hydroxide for, 1,250,063
—, —, sodium molybdate (crude) for, 1,250,063
—, molybdenum-iron catalyst from, 1,386,555
—, tungsten-molybdenum-vanadium gold alloy prepared with, 1,418,081
Ammonium monocarbonate, see Ammonium bicarbonate
Ammonium monophosphate, see Ammonium phosphate, $NH_4H_2PO_4$
Ammonium mono-sulfo-oxyarsenate, mfr. of, 1,424,006
Ammonium muriate, see Ammonium chloride
Ammonium naphthenate, cement, Portland, waterproof, made with, 1,285,636
—, —, waterproof, made with, 1,285,636
—, concrete, waterproof, made with, 1,285,636
—, cylinder stock, treatment of using, 1,439,171
—, gas oil, treatment of using, 1,439,171
—, gasolene, treatment of using, 1,439,171
—, kerosene, treatment of using, 1,439,171
—, lubricating oil, treatment of using, 1,439,171
—, naphtha, treatment of using, 1,439,171
—, oil, mineral, treatment of using, 1,439,171
—, paraffin, treatment of using, 1,439,171
—, paraffin distillate, treatment of using, 1,439,171
—, paraffin slops, treatment of using, 1,439,171
—, petroleum, treatment of using, 1,439,171
—, scale wax, treatment of using, 1,439,171
—, slack wax, treatment of using, 1,439,171
Ammonium nickel chloride, nickel hydroxide made with, 1,135,785
Ammonium nickel sulfate, aluminum, electroplating of with, 1,256,954
—, —, nickel-plated, made with, 1,147,718; 1,256,954
—, battery, cadmium electrode for, made with, 1,509,138
—, cadmium electrode made with, 1,509,138
—, catalyst, hydrogenation, made with, 1,151,003
—, hydrogenation, catalyst for, made with, 1,151,003
—, nickel hydroxide made with, 1,135,785
Ammonium nitrate, alcohol, solid, made with, 1,317,950
—, —, solidified, made with, 1,503,835
—, alkali earth antimoniate made with, 1,211,564
—, alloy resistant of, 1,393,388
—, alumina, separation of from, 1,494,835
—, aluminum antimoniate made with, 1,211,564

Ammonium nitrate, aluminum hydroxide and, mfr. of, 1,464,984
—, amatol, recovery from of, 1,492,922; 1,492,956 1,492,957; 1,492,958
—, amatol contg., 1,492,905; 1,492,922; 1,492,923; 1,492,924; 1,492,925; 1,492,956; 1,492,957; 1,492,958
—, ammonia, solvent for, contg., 1,267,772
—, ammonia absorbed by, 1,319,663
—, ammonium perchlorate made with, 1,273,477; 1,303,167; 1,320,160
—, ammonium phosphate $(NH_4)_2HPO_4$, made with, 1,251,742
—, —, $(NH_4)_3PO_4$, made with, 1,251,742
—, ammonium salt, treatment of with, 1,263,363
—, ammonium silicate made with, 1,270,093
—, ammonium sulfate made with, 1,206,062 1,206,063; 1,217,247
—, antiseptic made with, 1,276,119
—, anti-static photographic film contg., 1,431,900; 1,434,453
—, barium nitrate made with, 1,273,824
—, bark, white ash and, explosive of, 1,444,594
—, battery, primary, copper oxide electrode for, made with, 1,486,955
—, beryllium antimoniate made with, 1,211,564
—, binder for aluminum oxide, hydrated, 1,312,853
—, binder for bauxite, 1,312,853
—, binder for clay, 1,312,853
—, binder for fire brick, 1,312,853
—, binder for flint clay, 1,312,853
—, bog iron ore, treatment with of, 1,263,363
—, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, calcium nitrate made with, 1,288,754
—, catalyst, hydrogenation, made with, 1,185,075
—, —, nickel as, made with, 1,165,956; 1,185,075
—, —, urea made with, 1,292,019
—, cellulose nitrate, water in, reducing by, 1,386,439
—, cellulose nitrate dehydrated by, 1,411,130
—, cement contg., waste asbestos and, 1,365,077
—, charcoal and, explosive of, 1,444,594
—, chrome yellow made with, 1,484,088
—, colophony and, cyanure triazide for detonating, 1,390,378
—, concentration of, alkali for, 1,126,471
—, —, alkali earth carbonate for, 1,126,471
—, —, alkali earth hydroxide for, 1,126,471
—, —, aluminum hydroxide for, 1,126,471
—, —, calcium carbonate for, 1,126,471
—, —, calcium hydroxide for, 1,126,471
—, —, lead hydroxide for, 1,126,471
—, —, potassium carbonate for, 1,126,471
—, —, potassium hydroxide for, 1,126,471
—, —, process for, 1,126,471
—, —, sodium carbonate for, 1,126,471
—, —, sodium hydroxide for, 1,126,471
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, iron, using, 1,484,690
—, —, steel, using, 1,484,690
—, detonating composition contg., 1,404,687
—, detonator made with, 1,194,095
—, diazodinitrophenol and, explosive mixture of, 1,428,011
Ammonium nitrate, diazodinitrophenol mixed with, 1,404,687
—, diphenylguanidine made with, 1,411,231; 1,422,506
—, dynamite contg., 1,440,994; 1,445,378
—, dynamite cartridge made with, 1,502,646
—, dynamite from smokeless powder and, 1,447,248
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, ethyl alcohol made with, 1,475,215
—, explosive contg., 1,124,679; 1,139,339; 1,143,330; 1,253,691; 1,280,563; 1,293,882; 1,298,793; 1,310,466; 1,311,274; 1,329,211; 1,329,212; 1,335,788; 1,335,789; 1,335,790; 1,376,030; 1,386,438; 1,386,440; 1,390,671; 1,395,775; 1,408,056; 1,409,963; 1,410,868; 1,428,011; 1,434,642; 1,441,130; 1,445,378; 1,456,341; 1,464,667; 1,472,691; 1,473,257
—, —, copper sulfate in, 1,299,942
—, —, mfr. of, process for, 1,310,037
—, —, nitrostarch and, 1,343,063; 1,382,563; 1,386,437; 1,386,478
—, —, trinitrotoluene, copper sulfate and, 1,307,495; Re-15,155
—, —, —, nitrostarch and, 1,343,077
—, explosive made with, 1,132,873; 1,186,065; 1,188,244; 1,188,245; 1,188,246; 1,320,160; 1,329,211; 1,329,212; 1,341,207; 1,434,642; 1,483,087; 1,509,393; 1,509,935; 1,510,348
—, explosive ingredient, 1,335,785
—, fertilizer made with, 1,251,742; 1,263,363; 1,283,678; 1,406,455; 1,410,036; 1,418,618; 1,482,479; 1,497,600; 1,501,645
—, fertilizer, explosive, made with, 1,274,343
—, film, photographic, made with, 1,431,900; 1,434,453
—, fir saw dust and, explosive of, 1,444,594
—, formation of, 1,464,991
—, —, ammonium carbonate for, 1,303,167
—, —, sodium nitrate for, 1,303,167
—, fuel, self-propelled torpedo contg., 1,512,354
—, fume of, precipitation of, 1,306,924
—, germicide made with, 1,276,119
—, glass coloring of with, 1,277,172
—, glycerol made with, 1,288,398
—, granular, mfr. of, process for, 1,131,361
—, grasses and, explosive of, 1,444,594
—, guanidine nitrate made with, 1,440,063; 1,441,206
—, heater, chemical, made with, 1,506,322; 1,506,323
—, hide, bating of using, 1,170,426
—, hydrogen made with, 1,506,323
—, hydrogenation, catalyst for, made with, 1,185,075
—, hydrogen dioxide made with, 1,273,824
—, insecticide made with, 1,496,436
—, iron, copper coating on, using, 1,484,690
—, —, nickel coating on, using, 1,484,690
—, iron hydroxide, treatment with of, 1,263,363
—, kieselguhr, treatment with of, 1,263,363
—, lamp, electric, filament for, made with, 1,180,264
—, lead, red, made with, 1,123,743
—, lead chromate made with, 1,484,088
—, leaves and, explosive of, 1,444,594

Ammonium nitrate, loading shell with, 1,453,933
—, lycopodium and, explosive of, 1,444,594
—, magnesium antimoniate made with, 1,211,564
—, manure contg., 1,397,629
—, mfr. of, air for, 1,237,884; 1,252,976
—, —, alkali earth carbide for, 1,517,870
—, —, aluminum fluoride for, 1,464,991
—, —, aluminum nitrate for, 1,494,835
—, —, ammonia for, 1,165,368; 1,206,062; 1,206,063; 1,217,247; 1,237,884; 1,252,976; 1,256,513; 1,306,924; 1,310,479; 1,315,534; 1,315,674; 1,464,991; 1,511,561; 1,517,870
—, —, ammonia compound for, 1,315,534
—, —, ammonium bicarbonate for, 1,315,534
—, —, ammonium carbonate for, 1,315,534
—, —, ammonium fluoride for, 1,511,561
—, —, ammonium hydroxide for, 1,494,835; 1,499,544
—, —, ammonium sulfate for, 1,301,047
—, —, apparatus for, 1,165,368; 1,206,062; 1,206,063; 1,217,247; 1,252,976; 1,315,674; 1,359,002; 1,498,031
—, —, asbestos as catalyst for, 1,237,884
—, —, barium carbide for, 1,517,870
—, —, calcium carbide for, 1,517,870
—, —, calcium cyanamide for, 1,498,031
—, —, calcium nitrate and ammonium bicarbonate for, 1,304,932
—, —, calcium oxide for, 1,165,368
—, —, carbide for, 1,517,870
—, —, carbo-nitride for, 1,310,479
—, —, coal for, 1,498,031
—, —, cobalt vanadate as catalyst for, 1,252,976
—, —, cyanamide for, 1,517,870
—, —, electrolytic process for, 1,359,002
—, —, garbage for, 1,165,368
—, —, gun-powder mill refuse for, 1,163,368
—, —, hydrocarbon for, 1,498,031
—, —, hydrocyanic acid for, 1,498,031
—, —, hydrofluoric acid for, 1,464,991; 1,511,561
—, —, hydrogen for, 1,498,031; 1,517,870
—, —, illuminating gas for, 1,498,031
—, —, iridium as catalyst for, 1,217,247
—, —, lime for, 1,165,368
—, —, manganese silver chromate as catalyst for, 1,237,884
—, —, metal oxides as catalyst for, 1,252,976
—, —, nickel as catalyst for, 1,252,976
—, —, nitric acid for, 1,165,368; 1,256,513; 1,306,924; 1,310,479; 1,315,534; 1,315,674; 1,359,002; 1,499,544
—, —, nitrogen for, 1,498,031; 1,517,870
—, —, nitrogen oxides for, 1,217,247
—, —, oxygen for, 1,206,062; 1,206,063; 1,237,884; 1,252,976
—, —, pitch for, 1,498,031
—, —, platinum black as catalyst for, 1,252,976
—, —, platinum as catalyst for, 1,252,976; 1,217,247; 1,517,870
—, —, platinum as catalyst carrier for, 1,252,976
—, —, potassium nitrate for, 1,165,368
—, —, process for, 1,165,368; 1,206,062; 1,206,063; 1,217,247; 1,237,884; 1,252,976; 1,256,513; 1,301,047; 1,306,924; 1,315,534; 1,315,674; 1,330,136; 1,359,002; 1,464,984; 1,464,991; 1,494,835; 1,498,031; 1,499,544; 1,511,561; 1,517,870
Ammonium nitrate, mfr. of, pumice as catalyst carrier for, 1,252,976
—, —, quartz diaphragm for, 1,359,002
—, —, sewage sludge for, 1,165,368
—, —, silver molybdate as catalyst for, 1,237,884
—, —, silver phosphate as catalyst for, 1,237,884
—, —, silver vanadate as catalyst for, 1,237,884
—, —, sodium chloride for, 1,165,368
—, —, sodium fluoride for, 1,464,991
—, —, sodium nitrate for, 1,165,368; 1,301,047; 1,464,991; 1,475,156; 1,475,157; 1,475,158; 1,511,561
—, —, steam for, 1,498,031; 1,517,870
—, —, sulfuric acid for, 1,306,924
—, —, tar for, 1,498,031
—, —, tin chromate as catalyst for, 1,252,976
—, media contg., 1,400,374
—, metal antimoniate made with, 1,211,564
—, nickel, catalyst, made with, 1,165,956; 1,185,075
—, —, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, iron, using, 1,484,690
—, —, steel, using, 1,484,690
—, nitric acid made with, 1,206,062; 1,206,063; 1,217,247
—, nitric acid electrolytically reduced to, 1,359,002
—, nitrogen monoxide made with, 1,499,544
—, nitronaphthalene, coating of for, 1,310,037
—, nitrostarch, water in, reducing by, 1,386,439
—, nitrostarch dried by solution of, 1,395,776
—, nitrostarch dehydrated by, 1,441,130
—, nut shells and, explosive of, 1,444,594
—, oils, polymerized, for coating, 1,395,775
—, —, vulcanized, for coating, 1,395,775
—, paper coloring of with, 1,277,172
—, photographic image toned with solution contg., 1,331,092
—, pigment made with, 1,484,088
—, plant tissue impregnated with, explosive of, 1,444,594
—, plaster of Paris, treatment with of, 1,263,363
—, porcelain coloring of with, 1,277,172
—, potassium mercuric iodide stabilized with, 1,276,119
—, potassium nitrate, separation from of, 1,274,145
—, potassium salt, treatment with of, 1,263,363
—, pressure generator actuated by, 1,423,330
—, recovery of, 1,464,991
—, refrigerating composition contg., 1,345,144
—, refrigeration, ammonia absorbent for, contg., 1,267,772
—, refrigeration process using, 1,246,866; 1,383,246
—, removal from gas mantles, 1,436,359
—, rifle barrel, cupro-nickel fouling in, using, 1,484,690
—, roots and, explosive of, 1,444,594
—, sawdust and, explosive of, 1,444,594
—, silica, treatment with of, 1,263,363
—, silicic acid made with, 1,270,093
—, skin, bating of using, 1,170,426

Ammonium nitrate, smokeless powder contg., cellulose nitrate and, 1,341,207
—, smoke producing compound made with, 1,244,940
—, sodium nitrate made with, 1,320,160
—, solvent for, alcohol as, 1,503,835
—, starch and, explosive of, 1,444,594
—, starch, nitrated, solubilized by, 1,410,037
—, —, treatment with of, 1,263,363
—, steel, copper coating on, using, 1,484,690
—, —, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, nickel coating on, using, 1,484,690
—, straw and, explosive of, 1,444,594
—, synthesis of, 1,408,625
—, tennis ball preserved with, 1,207,813
—, thiocarbanilid desulfurized with, 1,411,231
—, tin antimoniate made with, 1,211,564
—, tungsten filament made with, 1,180,264
—, urea made with, 1,241,919; 1,241,920
—, water gas made with, 1,506,323
—, water-proof coating for, process for, 1,310,037
—, wood coloring of with, 1,277,172
—, wood meal and, explosive of, 1,444,594
—, yeast made with, 1,475,215
—, yeast food contg., 1,288,398
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, zinc antimoniate made with, 1,211,564
—, zirconium antimoniate made with, 1,211,564
Ammonium nitrite, ball made with, 1,240,439
—, golf ball made with, 1,240,439
—, mfr. of, air for, 1,172,863; 1,237,884
—, —, aluminum compound for, 1,172,863
—, —, aluminum oxide for, 1,172,863
—, —, ammonia for, 1,237,884
—, —, asbestos as catalyst for, 1,237,884
—, —, calcium compound for, 1,172,863
—, —, fuel for, 1,172,863
—, —, manganese silver chromate as catalyst for, 1,237,884
—, —, oxygen for, 1,172,863; 1,237,884
—, —, process for, 1,172,863; 1,237,884
—, —, silver molybdate as catalyst for, 1,237,884
—, —, silver phosphate as catalyst for, 1,237,884
—, —, silver vanadate as catalyst for, 1,237,884
—, —, water for, 1,172,863
Ammonium-*p*-nitrophenylenedithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Ammonium nitrosophenylhydroxylamine-phenylglyoxime, ore concentrated by use of, 1,449,797
—, lead ore concentrated by use of, 1,449,797
—, tin ore concentrated by use of, 1,449,797
—, vanadium ore concentrated by use of, 1,449,797
Ammonium oleate, core compound contg., 1,392,013
—, finish remover made with, 1,147,851
—, metal sulfide separated from iron sulfide with, 1,254,173
—, oils emulsified with, 1,392,013
—, varnish made with, 1,436,820
Ammonium orthoborate, resistors coated by use of, 1,365,331
Ammonium ortho-thioantimonate, battery, electric, contg., 1,316,760
Ammoniumorthozincate, cellulose, fireproofing of with, 1,318,523; 1,318,524
—, cloth, fireproofing of with, 1,318,523; 1,318,524
—, fireproofing with, 1,318,523; 1,318,524
—, wood, fireproofing of with, 1,318,523; 1,318,524
Ammonium oxalate, aluminum iron plated with, 1,332,307
—, ammonium iron(ic) citrate made with, 1,508,448
—, ammonium phosphate $(NH_4)_2HPO_4$, made with, 1,251,742
—, —, $(NH_4)_3PO_4$, made with, 1,251,742
—, blue print paper made with, 1,500,433
—, calcium testing reagent, 1,457,466
—, candy contg., 1,450,865
—, casein size made with, 1,506,081
—, catalyst, urea made by, 1,292,019
—, confection contg., 1,450,865
—, copper cyanamide made with, 1,352,177; 1,352,179
—, electrolyte contg., 1,273,432; 1,291,310
—, electrolyte for iron purification contg., 1,420,128; 1,420,129
—, etching, electrolyte for, contg., 1,273,432
—, etching solution contg., 1,362,159
—, fertilizer made with, 1,251,742
—, formation of, process for, 1,194,354
—, hog cholera antitoxin made with, 1,183,591; 1,224,860
—, intestines tanned with, 1,444,548
—, leather made with, 1,444,548
—, leather treated with, 1,334,216
—, lozenge contg., 1,450,865
—, photographic material hardened with, 1,424,062
—, pill contg., 1,450,865
—, powder contg., 1,450,865
—, size made with, 1,506,081
—, tablet contg., 1,450,865
Ammonium palladium chloride, see Ammonium chlorpalladinate
—, *see also Palladium black*
Ammonium palladium protochloride, catalyst for hydrogenation made with, 1,164,141; Re-14,656
—, cotton seed oil, hydrogenation of, catalyst for, made with, 1,164,141; Re-14,656
Ammonium palmitate, candle made with, 1,229,132
—, finish remover made with, 1,147,851
Ammonium paratungstate, mfr. of, ammonium hydroxide for, 1,277,475; 1,282,122
—, —, process for, 1,282,122
—, —, tungsten trioxide for, 1,277,475; 1,282,122
—, tungsten trioxide made with, 1,282,122
—, tungsten trioxide, finely divided, made with, 1,277,475
—, $(NH_4)_{10}W_{12}O_{41}.5H_2O$, 1,277,475
Ammonium per-acid salt, soap made with, 1,153,167
Ammonium perborate, starch, soluble, made with, 1,207,177

Ammonium perchlorate, coated, explosives made with, 1,357,764
—, detonating composition contg., 1,462,074; 1,462,075; 1,462,093
—, detonator made with, 1,194,095; 1,206,456
—, dynamite contg., 1,434,642
—, explosive contg., 1,128,471; 1,293,154; 1,297,213; 1,301,646; 1,309,014; 1,310,466; 1,311,171; 1,327,985; 1,334,303; 1,335,788; 1,335,790; 1,393,463; 1,360,397; 1,360,398; 1,360,399; 1,367,608; 1,376,029; 1,393,984; 1,395,776; 1,408,056; 1,409,963; 1,410,868; 1,428,011; 1,434,642; 1,440,767; 1,440,768; 1,462,074; 1,462,075; 1,462,093
—, explosive made with, 1,132,873; 1,186,065; 1,243,231; 1,243,351; 1,276,537; 1,277,043; 1,320,160; 1,334,303; 1,357,764; 1,360,397; 1,360,398; 1,360,399; 1,434,642; 1,453,984; 1,510,555
—, mfr. of, ammonia for, 1,273,477
—, —, ammonium chlorate for, 1,273,477
—, —, ammonium chloride for, 1,273,477; 1,320,160
—, —, ammonium nitrate for, 1,273,477; 1,303,167; 1,320,160
—, —, ammonium salt for, 1,320,160
—, —, ammonium sulfate for, 1,273,477; 1,284,380; 1,320,160
—, —, carbon dioxide for, 1,273,477
—, —, potassium perchlorate for, 1,273,477
—, —, process for, 1,273,477; 1,284,380; 1,303,167
—, —, sodium perchlorate for, 1,273,477; 1,303,167; 1,320,160; 1,342,956
—, —, sodium perchlorate and ammonium sulfate for, 1,338,357
—, match made with, 1,329,537
—, match heads contg., 1,329,537
—, sodium sulfate separation of from, 1,284,380; 1,338,357
—, trinitrotoluene for coating, 1,367,608
Ammonium permanganate, tobacco, denicotinizing of, using, 1,518,706
Ammonium persulfate, acetic acid made with, 1,128,780
—, anilinogallocyanine made with, 1,268,455
—, bast fiber, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, battery, dry, made with, 1,147,753
—, —, —, depolarizer for, made with, 1,221,991
—, cereal, treatment of using, 1,222,830
—, checks, writing of, using, 1,514,222
—, cocoa fiber, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, compound, heat-producing, contg., 1,309,209
—, copper, iron, using, 1,484,690
—, —, steel, using, 1,484,690
—, documents, printing of, using, 1,514,222
—, dyestuff made with, 1,268,455
—, explosive made with, 1,222,065
—, flax, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
—, flour, treatment of using, 1,222,830
—, glass made with, 1,488,914
—, gun cleaning compound contg., 1,296,196
—, hemp, bleaching of, using, 1,247,757
—, —, retting of, using, 1,247,757
Ammonium persulfate, hydrogen, palladium black, rhodium in, electrode, removal from of, using, 1,218,584
—, —, palladium black electrode, removal from of, using, 1,218,584
—, —, palladium sponge electrode, removal from of, using, 1,218,584
—, —, rhodium, platinum black contg., electrode, removal from of, using, 1,218,584
—, hydrogen dioxide made with, 1,195,560; 1,234,380; 1,511,494
—, iron, copper coating on, using, 1,484,690
—, —, nickel coating on, using, 1,484,690
—, jute, retting of, using, 1,247,757
—, manganese compounds oxidized with, 1,445,366
—, manganese compounds separated from zinc by, 1,444,484
—, mfr. of, ammonium bisulfate for, 1,195,560; 1,234,380
—, —, ammonium sulfate for, 1,477,099
—, —, lead cathode for, 1,195,560; 1,477,099
—, —, platinum anode for, 1,195,560; 1,477,099
—, —, platinum coated tantalum as anode for, 1,477,099
—, —, process for, 1,195,560
—, —, sulfuric acid for, 1,477,099
—, —, tantalum coated with, platinum as anode for, 1,477,099
—, nickel, iron, using, 1,484,690
—, —, steel, using, 1,484,690
—, ore, flotation of with, 1,300,516
—, oxygen made with, 1,218,584
—, palladium black, electrode, hydrogen, removal of from, using, 1,218,584
—, —, rhodium, electrode, hydrogen removal of from, using, 1,218,584
—, palladium sponge electrode, hydrogen, removal of from using, 1,218,584
—, rhodium, platinum black contg., electrode, hydrogen, removal of from using, 1,218,584
—, rifle barrel, cupro-nickel fouling in, using, 1,484,690
—, steel, copper coating on, using, 1,484,690
—, —, nickel coating on, using, 1,484,690
—, starch, soluble, made with, 1,207,177
—, wheat, treatment of using, 1,222,830
Ammonium phenate, see Ammonium phenolate
Ammonium phenolate, ores floated with, 1,334,420
—, phenol aldehyde condensate made with, 1,505,382
Ammonium phenyldithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Ammonium phenylethyldithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Ammonium phosphate, acetaldehyde made with, 1,511,754
—, acetic acid made with, 1,214,518
—, adhesive, fireproof, made with, 1,248,092
—, aircraft, fireproof dope for, contg., 1,321,708
—, airplane dope made with, 1,321,708; 1,329,386; 1,393,355; 1,440,178
—, airplane fabric made with, 1,325,363; 1,427,941
—, airplane fabric fireproofed with, 1,427,941

Ammonium phosphate, alcohol made with, 1,511,754
—, ale made with, 1,214,518
—, ammonia made with, 1,252,318
—, ammonium phosphate $(NH_4)_2HPO_4$, made with, 1,251,742
—, —, $(NH_4)_3PO_4$, made with, 1,251,742
—, balloon fabric made with, 1,427,941
—, beer made with, 1,214,518
—, beverage made with, 1,214,518
—, bread made with, 1,500,545
—, calcium phosphate, acid, made with, 1,252,318
—, —, $(Ca(H_2PO_4)_2)$, made with, 1,252,318
—, catalyst, dehydrogenation, made with, 1,215,335
—, —, hydrogenation, made with, 1,215,335
—, cellulose acetate inflammability of reduced using, 1,440,178
—, cellulose nitrate fireproofed with, 1,329,386; 1,393,355
—, cellulose sulfite liquor treated with, 1,284,739; 1,284,740; 1,467,321
—, cement contg., 1,296,467; 1,456,667
—, chemical electrolytic rectifier contg., 1,339,907
—, cloth fireproofed with, 1,381,413
—, coffee substitute made with, 1,486,792
—, dehydrogenation, catalyst for, made with, 1,215,335
—, ethyl alcohol made with, 1,284,739; 1,284,740
—, ethyl alcohol from cellulose sulfite liquor and, 1,320,043
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, fertilizer made with, 1,146,222; 1,251,742; 1,418,618; 1,441,694; 1,456,850
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, fire extinguisher made with, 1,154,161; 1,248,092
—, fireproofing made with, 1,248,092; 1,316,881; 1,325,363; 1,346,287; 1,418,730; 1,441,061
—, fireproofing, aircraft, made with, 1,309,453
—, fireproofing composition contg., 1,310,841; 1,321,708
—, fireproofing fabrics with, 1,436,231
—, fireproofing solution contg., 1,382,618
—, formation of, 1,456,831
—, formation in fertilizer mfr., 1,355,369
—, glycerol made with, 1,288,398; 1,511,754
—, hydrogenation, catalyst for, made with, 1,215,335
—, hygroscopicity of, 1,369,763
—, insulating composition contg., 1,456,667
—, insulation, electric, made with, 1,246,810; 1,248,638
—, —, heat, made with, 1,456,667
—, iron, rust-proofing with, 1,320,734
—, kapok fireproofed with, 1,422,242
—, lacquer, inflammability reduced of, using, 1,440,178
—, lactic acid made with, 1,214,518
—, lubricant made with, 1,145,877; 1,181,976
—, lubricating oil, fireproof made with, 1,181,976
—, magnesium oxide, action on of, 1,296,467
—, malt substitute made with, 1,214,518
Ammonium phosphate, mfr. of, alkali carbonate for, 1,270,515
—, —, alkali hydroxide for, 1,270,515
—, —, feldspar for, 1,270,515
—, —, nitrogen for, 1,510,179
—, —, phosphate rock for, 1,270,515
—, —, phosphorus for, 1,510,179
—, —, phosphorus nitride for, 1,510,179
—, —, process for, 1,270,515; 1,369,763; 1,510,179
—, —, sulfuric acid for, 1,270,515
—, match made with, 1,230,416; 1,372,860
—, matches impregnated with, 1,372,860
—, packing, lubricating, made with, 1,145,877
—, paint, fireproof, made with, 1,248,092
—, paper, fireproof sizing for, made with, 1,248,092
—, phosphoric acid made with, 1,252,318
—, photographic material hardened with, 1,424,062
—, porter made with, 1,214,518
—, rectifier, electric, made with, 1,155,649
—, —, electrolytic, made with, 1,165,983; 1,339,907
—, reducing inflammability of fabrics by, 1,439,178
—, rust preventing paint contg., 1,428,086
—, rustproofing made with, 1,428,086; 1,428,087
—, sake made with, 1,214,518
—, shingle, fireproofing of, made with, 1,346,287
—, sizing amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, starch, fireproof, made with, 1,248,092
—, steel, rust-proofing with, 1,320,734
—, steel prevented from rusting by, 1,428,087
—, stone, artificial, contg., 1,456,667
—, tent fabric made with, 1,427,941
—, underwriters cloth made with, 1,427,941
—, varnish, fireproof, made with, 1,248,092
—, vinegar made with, 1,214,518
—, wood fireproofed with, 1,274,171; 1,346,287; 1,441,061
—, wood preserved with, 1,274,171
—, yeast, dry, contg., 1,386,359; 1,386,360
—, yeast made with, 1,201,062; 1,449,127; 1,475,471
—, yeast from sugar and, 1,449,102; 1,449,104; 1,449,106; 1,449,111; 1,449,112
—, yeast food contg., 1,288,398; 1,431,156; 1,434,462
—, *see also Mono-, Di-, and Tri-ammonium phosphate*
—, (acid), rust preventing paint contg., 1,428,086
—, (di), yeast from sugar and, 1,449,102; 1,449,103
—, —, yeast stimulant contg., 1,447,054
—, (dihydrogen) phosphate, yeast treated with, 1,464,710
—, $(NH_4)H_2PO_4$, fertilizer, 1,194,077
—, —, mfr. of alunite for, 1,191,615
—, —, —, ammonia for, 1,142,068; 1,151,074; 1,151,633; 1,167,788; 1,191,615; 1,194,077; 1,208,877; 1,369,763
—, —, —, ammonia, gas contg., for, 1,208,877
—, —, —, ammonium hydroxide for, 1,142,068; 1,151,074; 1,151,633; 1,167,788; 1,369,763

Ammonium phosphate $(NH_4)H_2PO_4$, mfr. of, ammonium phosphate, $(NH_4)_2HPO_4$, for, 1,142,068; 1,151,074; 1,151,633; 1,167,788
—, —, —, calcium phosphate, $Ca(H_2PO_4)_2$, for, 1,191,615
—, —, —, —, $Ca_3P_2O_8$, for 1,129,504; 1,129,722; 1,191,615
—, —, —, carbon for, 1,129,504; 1,129,722
—, —, —, carbon monoxide for, 1,129,504; 1,129,722
—, —, —, coal dust for, 1,129,504; 1,129,722
—, —, —, coke for, 1,129,504; 1,129,722
—, —, —, coke oven for, 1,208,877
—, —, —, hydrogen for, 1,129,504; 1,129,722
—, —, —, illuminating gas for, 1,129,504; 1,129,722
—, —, —, Mond gas for, 1,208,877
—, —, —, nitrogen for, 1,129,504; 1,129,722
—, —, —, phosphate for, 1,129,504; 1,129,722; 1,142,068; 1,151,074; 1,151,633; 1,167,788; 1,191,615; 1,194,077; 1,369,763
—, —, —, phosphoric acid for, 1,142,068; 1,151,074; 1,151,633; 1,167,788; 1,191,615; 1,194,077; 1,208,877; 1,369,763
—, —, —, phosphorus carbonitride, $P_2C_5N_{10}$, for, 1,129,504; 1,129,722
—, —, —, phosphorus nitride for, 1,129,504; 1,129,722
—, —, —, phosphorus pentoxide for, 1,194,077
—, —, —, potassium carbonate for, 1,191,615
—, —, —, potassium sulfate for, 1,191,615
—, —, —, process for, 1,129,504; 1,129,722; 1,142,068; 1,151,074; 1,151,633; 1,167,788; 1,191,615; 1,194,077; 1,208,877; 1,369,763
—, —, —, producer gas for, 1,129,504; 1,129,722
—, —, —, sulfuric acid for, 1,142,068; 1,151,074; 1,151,633; 1,167,788; 1,191,615; 1,369,763
—, —, —, water for, 1,129,504; 1,129,722; 1,194,077
—, —, yeast made with, 1,449,111; Re-15,716
Ammonium phosphate $(NH_4)_2HPO_4$, ammonium potassium phosphate, $K(NH_4)HPO_4$, made with, 1,357,120
—, —, ethyl alcohol made with, 1,475,215
—, —, mfr. of, air for, 1,514,912
—, —, —, ammonia for, 1,264,513; 1,264,514; 1,276,870; 1,514,912
—, —, —, ammonium acetate for, 1,251,742
—, —, —, ammonium borate for, 1,251,742
—, —, —, ammonium carbonate for, 1,251,742
—, —, —, ammonium chloride for, 1,251,742
—, —, —, ammonium citrate for, 1,251,742
—, —, —, ammonium fluoride for, 1,251,742
—, —, —, ammonium fluosilicate for, 1,251,742
—, —, —, ammonium hydroxide for, 1,264,513; 1,264,514
—, —, —, ammonium nitrate for, 1,251,742
—, —, —, ammonium oxalate for, 1,251,742
—, —, —, ammonium phosphate for, 1,251,742
—, —, —, ammonium phosphate, $NH_4H_2PO_4$, made with, 1,142,068; 1,151,074; 1,151,633; 1,167,788
—, —, —, ammonium phosphite for, 1,251,742
—, —, —, ammonium sulfate for, 1,251,742; 1,514,912
—, —, —, apparatus for, 1,264,513
—, —, —, calcium carbide for, 1,514,912
Ammonium phosphate $(NH_4)_2HPO_4$ ammonium potassium phosphate, mfr. of, calcium cyanamide for, 1,514,912
—, —, —, calcium phosphate for, 1,251,742
—, —, —, carbon for, 1,514,912
—, —, —, iron oxide for, 1,514,912
—, —, —, lime for, 1,514,912
—, —, —, nitrogen for, 1,514,912
—, —, —, oxygen for, 1,514,912
—, —, —, phosphate for, 1,514,912
—, —, —, phosphate rock for, 1,251,742
—, —, —, phosphoric acid for, 1,264,513; 1,264,514; 1,276,870; 1,514,912
—, —, —, phosphorus pentoxide for, 1,514,912
—, —, —, potassium silicates for, 1,514,912
—, —, —, process for, 1,142,068; 1,151,074; 1,151,633; 1,167,788; 1,251,742; 1,264,513; 1,264,514; 1,276,870; 1,514,912
—, —, —, silica for, 1,514,912
—, —, —, sulfuric acid for, 1,514,912
—, —, match made with, 1,150,857
—, —, phosphoric acid made with, 1,511,929
—, —, yeast made with, 1,475,215
—, $((NH_4)_2H)$, wood preservative contg., 1,265,370
—, $(NH_4)H_2PO_4$, mfr. of, air for, 1,514,912
—, —, —, ammonia for, 1,264,513; 1,264,514; 1,276,870; 1,514,912
—, —, —, ammonium hydroxide for, 1,264,513; 1,264,514
—, —, —, ammonium sulfate for, 1,514,912
—, —, —, apparatus for, 1,264,513; 1,264,514
—, —, —, calcium carbide for, 1,514,912
—, —, —, calcium cyanamide for, 1,514,912
—, —, —, carbon for, 1,514,912
—, —, —, iron oxide for, 1,514,912
—, —, —, lime for, 1,514,912
—, —, —, nitrogen for, 1,514,912
—, —, —, oxygen for, 1,514,912
—, —, —, phosphate rock for, 1,514,912
—, —, —, phosphoric acid for, 1,264,513; 1,264,514; 1,276,870; 1,514,912
—, —, —, phosphorus pentoxide for, 1,514,912
—, —, —, potassium silicates for, 1,514,912
—, —, —, process for, 1,264,513; 1,264,514; 1,276,870; 1,514,912
—, —, —, silica for, 1,514,912
—, —, —, sulfuric acid for, 1,514,912
—, —, rustproofing using, 1,428,086
—, $(NH_4)_3PO_4$, building block contg., 1,305,993
—, —, mfr. of, air for, 1,514,912
—, —, —, ammonia for, 1,276,870; 1,514,912
—, —, —, ammonium acetate for 1,251,742
—, —, —, ammonium bicarbonate for, 1,252,318
—, —, —, ammonium borate for, 1,251,742
—, —, —, ammonium carbonate for, 1,251,742; 1,252,318
—, —, —, ammonium chloride for, 1,251,742
—, —, —, ammonium citrate for, 1,251,742
—, —, —, ammonium fluoride for, 1,251,742
—, —, —, ammonium fluosilicate for, 1,251,742
—, —, —, ammonium hydroxide for, 1,252,318
—, —, —, ammonium nitrate for, 1,251,742
—, —, —, ammonium oxalate for, 1,251,742
—, —, —, ammonium phosphate for, 1,251,742
—, —, —, ammonium phosphite for, 1,251,742

Ammonium phosphate $(NH_4)_2HPO_4$, $(NH_4)_3PO_4$, mfr. of, ammonium sulfate for, 1,251,742; 1,514,912
—, —, —, calcium carbide for, 1,514,912
—, —, —, calcium cyanamide for, 1,514,912
—, —, —, calcium phosphate for, 1,251,742
—, —, —, carbon for, 1,514,912
—, —, —, carbon dioxide for, 1,252,318
—, —, —, iron oxide for, 1,514,912
—, —, —, lime for, 1,514,912
—, —, —, nitrogen for, 1,514,912
—, —, —, oxygen for, 1,514,912
—, —, —, phosphate rock for, 1,251,742; 1,252,318; 1,514,912
—, —, —, phosphoric acid made with, 1,276,870; 1,511,929; 1,514,912
—, —, —, phosphorus pentoxide for, 1,514,912
—, —, —, potassium silicate for, 1,514,912
—, —, —, process for, 1,251,742; 1,252,318; 1,276,870; 1,514,912
—, —, —, silica for, 1,514,912
—, —, —, sulfuric acid for, 1,514,912
—, —, phosphoric acid made with, 1,511,929
Ammonium potassium phosphate, $K(NH_4)HPO_4$, mfr. of, ammonium phosphate $(NH_4)_2HPO_4$, for, 1,357,120
—, —, —, process for, 1,357,120
Ammonium phosphide, formation of, 1,454,591
Ammonium phosphite, ammonium phosphate $(NH_4)_2HPO_4$, made with, 1,251,742
—, —, $(NH_4)_3PO_4$, made with, 1,251,742
—, fertilizer made with, 1,251,742
—, nickel, coating with using, 1,207,218
Ammonium phospho-molybdate, battery depolarizer, 1,281,372
—, battery, dry, depolarizer for, contg., 1,272,952
—, battery depolarizer, 1,281,372
Ammonium picramate, diazodinitrophenol made with, 1,460,708
—, 2-diazo-4.6-dinitro-phenol made with, 1,460,708
—, mfr. of, alcohol for, 1,472,791
—, —, ammonium hydroxide for, 1,472,791
—, —, ammonium sulfide for, 1,472,791
—, —, carbon bisulfide for, 1,472,791
—, —, picric acid for, 1,472,791
—, —, process for, 1,472,791
Ammonium picrate, explosive made with, 1,320,160; 1,382,260; 1,444,594
—, unloading shell filled with, apparatus for, 1,492,957; 1,492,958
—, —, process for, 1,492,957; 1,492,958
Ammonium platinic chloride, see also Ammonium chlorplatinate
Ammonium platinum chloride, audion filament contg., 1,453,267
Ammonium polysulfide, battery, electric, contg., 1,316,760
—, —, primary, made with, 1,484,781
—, cyanogen compounds removed from ammonium hydroxide by, 1,467,193
—, cyanogen compounds removed from ammonium sulfate by, 1,467,193
—, formation of, process for, 1,160,375
—, rubber, hard, made using, 1,507,594
—, sulfur, colloidal made with, 1,429,522
Ammonium polysulfide, vulcanizing, accelerator made with, 1,473,285
—, vulcanization process using, 1,507,594
Ammonium polythionate, ammonium sulfate made with, 1,127,219
—, ammonium thiosulfate made with, 1,127,219
—, mfr. of, ammonium thiosulfate for, 1,217,219
—, —, process for, 1,127,219
—, —, sulfurous acid for, 1,127,219
—, sulfur made with, 1,127,219
Ammonium potassium phosphate, mfr. of, calcium phosphate, $Ca_3P_2O_8$, for, 1,492,712
—, —, carbon for, 1,492,712
—, —, feldspar for, 1,492,712
—, —, iron for, 1,492,712
—, —, iron oxide for, 1,492,712
—, —, lime for, 1,492,712
—, —, magnesia for, 1,492,712
—, —, muscovite for, 1,492,712
—, —, phosphate for, 1,492,712
—, —, phosphate rock for, 1,492,712
—, —, potassium silicates for, 1,492,712
—, —, process for, 1,492,712
—, —, silica for, 1,492,712
Ammonium potassium phosphate, $K(NH_4)(HPO_4)$, mfr. of, 1,357,120
—, —, —, ammonium citrate for, 1,357,120
—, —, —, ammonium sulfate for, 1,357,120
—, —, —, ammonium sulfite for, 1,357,120
—, —, —, ammonium tartrate for, 1,357,120
—, —, —, bone phosphate for, 1,357,120
—, —, —, calcium phosphate, $CaHPO_4$, for, 1,357,120
—, —, —, —, $Ca_3P_2O_8$, for, 1,357,120
—, —, —, hydrochloric acid for, 1,357,120
—, —, —, phosphate rock for, 1,357,120
—, —, —, phosphorite for, 1,357,120
—, —, —, potassium citrate for, 1,357,120
—, —, —, potassium phosphate, K_2HPO_4, for, 1,357,120
—, —, —, potassium salt for, 1,357,120
—, —, —, potassium sulfate for, 1,357,120
—, —, —, potassium sulfite for 1,357,120
—, —, —, potassium tartrate for, 1,357,120
—, —, —, sulfuric acid for, 1,357,120
—, —, —, sulfurous acid for, 1,357,120
Ammonium potassium sulfate, ammonium hydroxide made with, 1,493,320
—, fertilizer contg., 1,261,116; 1,261,117
—, mfr. of, alunite for, 1,261,116; 1,261,117
—, —, ammonium bisulfate for 1,261,116; 1,261,117
—, —, ammonium pyrosulfate for, 1,261,116; 1,261,117
—, —, ammonium sulfate for, 1,261,116; 1,261,117
—, —, leucite for, 1,261,116; 1,261,117
—, —, muscovite for, 1,261,116; 1,261,117
—, —, orthoclase for, 1,261,116; 1,261,117
—, —, process for, 1,261,116; 1,261,117
Ammonium purpurate, ink, printing, made with, 1,231,617
—, paint made with, 1,231,617
—, pigment made with, 1,231,617
—, varnish made with, 1,231,617
—, *see also Murexide*
Ammonium pyrogallate, candy contg., 1,450,865
—, confection contg., 1,450,865

Ammonium pyrogallate, fertilizer made with, 1,261,116; 1,261,117
—, lozenge contg., 1,450,865
—, pill contg., 1,450,865
—, powder contg., 1,450,865
—, tablet contg., 1,450,865
Ammonium pyrophosphate, mfr. of, air for, 1,514,912
—, —, ammonia for, 1,514,912
—, —, ammonium sulfate for, 1,514,912
—, —, calcium carbide for, 1,514,912
—, —, calcium cyanamide for, 1,514,912
—, —, carbon for, 1,514,912
—, —, iron oxide for, 1,514,912
—, —, lime for, 1,514,912
—, —, nitrogen for, 1,514,912
—, —, oxygen for, 1,514,912
—, —, phosphate rock for, 1,514,912
—, —, phosphoric acid for, 1,514,912
—, —, phosphorus pentoxide for, 1,514,912
—, —, potassium silicates for, 1,514,912
—, —, process for, 1,514,912
—, —, silica for, 1,514,912
—, —, sulfuric acid for, 1,514,912
—, $(NH_4)_2H_2P_2O_7$, fertilizer, 1,194,077
—, —, mfr. of, ammonia for, 1,194,077
—, —, —, phosphate rock for, 1,194,077
—, —, —, phosphoric acid for, 1,194,077
—, —, —, phosphorus pentoxide for, 1,194,077
—, —, —, process for, 1,194,077
—, —, —, water for, 1,194,077
Ammonium pyrosulfate ammonium potassium sulfate made with, 1,261,116; 1,261,117
—, potassium sulfate made with, 1,261,116; 1,261,117
Ammonium resinate, adhesive made with, 1,311,965
—, cement, Portland, waterproofing of with, 1,255,116
—, coating material contg., 1,410,211
—, copper ore, flotation of, using, 1,191,053
—, cylinder stock, treatment of using, 1,439,171
—, fabric, stiffener for, made with, 1,517,520
—, felt, stiffener for, made with, 1,517,520
—, finish remover made with, 1,147,851
—, flotation process using, 1,191,053
—, formation of, 1,334,679; 1,410,211
—, galena, flotation of, using, 1,191,053
—, gas oil, treatment of using, 1,439,171
—, gasolene, treatment of using, 1,439,171
—, glue, vegetable, made with, 1,311,965
—, kerosene, treatment of using, 1,439,171
—, leather, waterproofing for, made with, 1,233,480
—, lubricating oil, treatment of using, 1,439,171
—, mfr. of, air for, 1,354,575
—, —, ammonium carbonate for, 1,223,480
—, —, ammonium hydroxide for, 1,223,480; 1,311,965; 1,354,575
—, —, calcium hydroxide for, 1,354,575
—, —, calcium hypochlorite for, 1,354,575
—, —, formaldehyde for, 1,354,575
—, —, hydrogen dioxide for, 1,354,575
—, —, process for, 1,223,480; 1,354,575
—, —, rosin for, 1,311,965; 1,354,575
—, —, soap, resin, for, 1,223,480
—, —, sodium carbonate for, 1,354,575
Ammonium resinate, mfr. of, sodium hydroxide for, 1,354,575
—, —, sulfur dioxide for, 1,354,575
—, —, sulfuric acid for, 1,354,575
—, —, turpentine for, 1,354,575
—, naphtha, treatment of using, 1,439,171
—, oil, mineral, treatment of using, 1,439,171
—, paper, sizing for, made with, 1,223,480
—, —, stiffener for, made with, 1,517,520
—, paraffin, treatment of using, 1,439,171
—, paraffin distillate, treatment of using, 1,439,171
—, paraffin slop, treatment of using, 1,439,171
—, petroleum, treatment of using, 1,439,171
—, resins from, 1,334,679
—, scale wax, treatment of using, 1,439,171
—, shoe stiffener made with, 1,517,520
—, slack wax, treatment of using, 1,439,171
—, textile, waterproofing for, made with, 1,223,480
—, waterproofing made with, 1,223,480
—, wood, waterproofing for, made with, 1,223,480
Ammonium resino-stearate, cement, Portland, waterproofing of, with, 1,255,116
Ammonium rhodanide, see Ammonium thiocyanate
Ammonium ricinoleate, dyestuff made with, 1,197,633
Ammonium salicylate, purification of, hydrogen sulfide for, 1,459,900
—, —, lead salts for, 1,459,900
—, —, process for, 1,459,900
—, —, tin chloride for, 1,459,900
—, —, tin salicylate, for, 1,459,900
—, —, tin salt for, 1,459,900
—, —, tin(ous) salt for, 1,459,900
Ammonium salt, adhesive made with, 1,378,128
—, adhesive, fireproof, made with, 1,248,092
—, airplane fabric made with, 1,427,941; 1,429,295
—, amino compound for silk, degumming, made with, 1,254,033
—, amino compound for skin, bating of, made with, 1,254,033
—, amino compound for turkey red, dyeing of, made with, 1,254,033
—, ammonium iron(ic) citrate made with, 1,508,448
—, ammonium nitrate, treatment of with, 1,268,363
—, ammonium perchlorate made with, 1,320,160
—, arsenic recovered with, 1,258,934
—, balloon fabric made with, 1,427,941
—, battery, dry, made with, 1,160,999; 1,170,819; 1,178,927; 1,221,061; 1,221,062
—, —, primary, copper oxide electrode for, made with, 1,366,559; 1,496,527
—, blue print paper made with, 1,500,433
—, boron nitride, stable, made with, 1,157,271
—, bread made with, 1,148,328; 1,158,933; 1,242,396; 1,325,327
—, calcium nitrate made with, 1,288,754
—, calcium urea phosphate made with, 1,280,650
—, carbon, decolorizing, made with, 1,479,851
—, case hardening process using, 1,247,863
—, catalyst, urea made with, 1,292,019
—, celluloid substitute made with, 1,245,975

Ammonium salt, cement, Portland, waterproof, made with, 1,285,636
—, —, waterproof, made with, 1,285,636
—, chrome yellow made with, 1,484,088
—, cobalt made with, 1,487,145
—, concentration of, alkali for, 1,126,471
—, —, alkali earth carbonate for, 1,126,471
—, —, alkali earth hydroxide for, 1,126,471
—, —, aluminum hydroxide for, 1,126,471
—, —, calcium carbonate for, 1,126,471
—, —, calcium hydroxide for, 1,126,471
—, —, lead hydroxide for, 1,126,471
—, —, potassium carbonate for, 1,126,471
—, —, potassium hydroxide for, 1,126,471
—, —, process for, 1,126,471
—, —, sodium carbonate for, 1,126,471
—, —, sodium hydroxide for, 1,126,471
—, concrete, waterproof, made with, 1,285,636
—, condenser, electrolytic, made with, 1,412,513
—, copper made with, 1,440,186; 1,487,145
—, copper, iron, using, 1,484,690
—, —, steel, using, 1,484,690
—, copper recovered with, 1,258,934
—, cotton, fireproofing of, using, 1,224,205
—, detergent made with, 1,144,186
—, dyeing, vat, using, 1,148,966
—, dyestuff made with, 1,426,189
Ammonium salt, enamel, opaque, made with, 1,129,300
—, —, white, made with, 1,129,300
—, ethyl alcohol made with, 1,475,215
—, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, —, fireproofing of, using, 1,224,205
—, fermentation, acid, using, 1,123,920
—, fertilizer contg., 1,263,363; 1,280,650; 1,309,723; 1,471,979
—, fertilizer, explosive, made with, 1,274,343; 1,308,453
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, fibers liberated by alkalis and, 1,345,776
—, filament, artificial, viscose, precipitation of, using, 1,214,931
—, finish remover made with, 1,147,852
—, fire extinguisher made with, 1,248,092
—, fireproofing using, 1,224,205; 1,248,092
—, glass coloring of with, 1,277,172
—, gloxylic acid made with, 1,227,706
—, gold recovered with, 1,258,934
—, guanidine salts made with, 1,441,206
—, hide, bating of, using, 1,170,426
—, insulation, electric, made with, 1,245,975
—, —, heat, made with, 1,153,512; 1,456,667
—, iron, copper coating on, using, 1,484,690
—, —, nickel coating on, using, 1,484,690
—, iron plating electrolyte ingredient, 1,444,887
—, iron recovered with, 1,258,934
—, ivory substitute made with, 1,245,975
—, lacquer made with, 1,187,231
—, lactic acid made with, 1,249,511
—, Lalande, depolarizer for contg., 1,468,234
—, lead recovered with, 1,258,934
—, lead chromate made with, 1,484,088
—, lightning arrester, electrolytic, made with, 1,412,513
—, mfr. of, 1,441,694
Ammonium salt, mfr. of, acid for, 1,511,912
—, —, air for, 1,160,836; 1,494,735
—, —, alkali hydroxide for, 1,156,606
—, —, alkali sulfide for, 1,156,606
—, —, aluminum dross for, 1,156,606
—, —, aluminum nitride for, 1,162,130
—, —, aluminum screenings for, 1,156,606
—, —, aluminum skimmings for, 1,156,606
—, —, aluminum slags for, 1,156,606
—, —, ammonia for, 1,160,836; 1,162,130
—, —, ammonia, gas contg., for, 1,162,130
—, —, ammonium ferrocyanide for, 1,162,130
—, —, ammonium hydroxide for, 1,160,836; 1,162,130
—, —, ammonium thiocyanate for, 1,148,368
—, —, apparatus for, 1,137,524; 1,156,606; 1,252,726; 1,494,735
—, —, bauxite for, 1,162,130
—, —, bitumen, shale contg., for, 1,494,735
—, —, calcium oxide for, 1,137,524
—, —, carbon for, 1,137,524; 1,511,912
—, —, charcoal for, 1,137,524
—, —, clay for, 1,162,130
—, —, coal distillation gas for, 1,160,836
—, —, coal gas for, 1,148,368
—, —, coke for, 1,137,524
—, —, coke oven gas for, 1,162,130; 1,511,912
—, —, feldspar for, 1,123,585; 1,154,800
—, —, gas producer gas for, 1,450,562
—, —, gas works gas for, 1,511,912
—, —, hydrocyanic acid for, 1,148,368
—, —, hydrogen for, 1,252,726
—, —, iron as catalyst for, 1,252,726
—, —, iron hydroxide for, 1,160,836
—, —, iron oxide for, 1,160,836
—, —, limonite for, 1,160,836
—, —, Mond's gas for, 1,162,130
—, —, nitrogen for, 1,137,524; 1,252,726
—, —, oxygen for, 1,160,836; 1,494,735
—, —, peat for, 1,511,912
—, —, phosphate rock for, 1,154,800
—, —, phosphorus carbonitride for, 1,123,585; 1,154,800
—, —, potassium carbonitride for, 1,123,585; 1,154,800
—, —, potassium ferrocyanide for, 1,162,130
—, —, process for, 1,137,524; 1,148,368; 1,123,585; 1,154,800; 1,156,606; 1,160,836; 1,162,130; 1,252,726; 1,494,735; 1,511,912
—, —, shale, argillaceous, for, 1,162,130
—, —, —, bituminous, for, 1,494,735
—, —, sodium ferrocyanide for, 1,162,130
—, —, sodium hydroxide for, 1,156,606; 1,162,130
—, —, sulfide for, 1,156,606
—, —, sulfur for, 1,156,606
—, —, sulfuric acid for, 1,148,368; 1,156,606; 1,162,130
—, —, thiocyanates for, 1,160,836
—, —, uranium as catalyst for, 1,252,726
—, marble substitute made with, 1,245,975
—, *N*-methyl-aniline made with, 1,221,077
—, mineral acids formed during electrolysis neutralized by, 1,420,128; 1,420,129; 1,420,130
—, neutralizing, purified ammonia liquor for, 1,346,106
—, nickel made with, 1,487,145

Ammonium salt, nickel iron, using, 1,484,690
—, —, steel, using, 1,484,690
—, nitrogen trichloride made with, 1,367,530; 1,510,132
—, paint, fireproof, made with, 1,248,092
—, paper coloring of with, 1,277,172
—, paper, fireproof sizing for, made with, 1,248,092
—, phenol aldehyde condensate made with, 1,187,230; 1,187,231; 1,187,232; 1,237,579
—, phenol aldehyde condensate substitute made with, 1,245,975
—, pigment made with, 1,484,088
—, plate, photographic, Roentgen ray sensitive, made with, 1,195,432
—, porcelain coloring of with, 1,277,172
—, proteid products made with, 1,245,975
—, recovery from artificial, silk denitration liquors, 1,390,329
—, rectifier, electrolytic, made with, 1,412,513
—, rifle barrel, cupro-nickel fouling in, using, 1,484,690
—, roofing made with, 1,167,195
—, rubber substitute made with, 1,245,975
—, silk, artificial, viscose, precipitation of, using, 1,200,774; 1,214,931; 1,399,587
—, silver recovered with, 1,258,934
—, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
—, skin, bating of using, 1,170,426
—, starch, fireproof, made with, 1,248,092
—, steel, copper coating on, made with, 1,484,690
—, —, nickel coating on, using, 1,484,690
—, sulfur dioxide, absorption of, using, 1,212,199
—, sulfur trioxide, absorption of, using, 1,212,199
—, sulfuric acid in titanium hydroxide neutralized with, 1,361,866; 1,361,867
—, tent fabric made with, 1,427,941
—, thread, cellulose, brilliant, made with, 1,184,323
—, —, cotton, brilliant, made with, 1,184,323
—, —, hemp, brilliant, made with, 1,184,323
—, —, jute, brilliant, made with, 1,184,323
—, —, linen, brilliant, made with, 1,184,323
—, —, ramie, brilliant, made with, 1,184,323
—, underwriters cloth made with, 1,427,941
—, urea made with, 1,241,919; 1,241,920
—, urea, removal from of, 1,173,550
—, varnish made with, 1,187,231
—, varnish, fireproof, made with, 1,248,092
—, viscose, precipitation of using, 1,200,774; 1,214,931; 1,375,823; 1,375,824
—, vulcanizing with, 1,467,197
—, vulcanization process using, 1,467,197
—, wood coloring of with, 1,277,172
—, wood fireproofing of using, 1,224,205; 1,441,061
—, yeast made with, 1,449,127; 1,475,215; 1,475,471; 1,475,494
—, yeast food made with, 1,519,801
—, zinc recovered with, 1,258,934
Ammonium selenide, asphalt tempered with, 1,328,310; 1,372,467
—, road paving made with, 1,328,310
Ammonium selenite, catalyst, urea made with, 1,292,019
Ammonium seleno-vanadate, mfr. of, carbon compounds for, 1,154,949
—, —, hydrochloric acid for, 1,154,949
—, —, nitric acid for, 1,154,949
—, —, process for, 1,154,949
—, —, selenium for, 1,154,949
—, —, selenium dioxide for, 1,154,949
—, —, selenium trioxide for, 1,154,949
—, —, sulfurous acid for, 1,154,949
—, —, vanadium dioxide for, 1,154,949
—, —, vanadium monoxide for, 1,154,949
—, —, vanadium pentoxide for, 1,154,949
—, —, vanadium tetroxide for, 1,154,949
—, —, vanadium trioxide for, 1,154,949
Ammonium seleno-vanadite, mfr. of, carbon compounds for, 1,154,949
—, —, hydrochloric acid for, 1,154,949
—, —, nitric acid for, 1,154,949
—, —, process for, 1,154,949
—, —, selenium for, 1,154,949
—, —, selenium dioxide for, 1,154,949
—, —, selenium trioxide for, 1,154,949
—, —, sulfurous acid for, 1,154,949
—, —, vanadium dioxide for, 1,154,949
—, —, vanadium monoxide for, 1,154,949
—, —, vanadium pentoxide for, 1,154,949
—, —, vanadium tetroxide, for, 1,154,949
—, —, vanadium trioxide for, 1,154,949
Ammonium sesqui-carbonate, rubber, synthetic, made with, 1,238,930
Ammonium silicate, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, mfr. of, ammonium acetate for, 1,270,093
—, —, ammonium bromide for, 1,270,093
—, —, ammonium chloride for, 1,270,093
—, —, ammonium nitrate for, 1,270,093
—, —, ammonium sulfate for, 1,270,093
—, —, potassium silicate for, 1,270,093
—, —, process for, 1,270,093
—, —, sodium silicate for, 1,270,093
—, silicic acid made with, 1,270,093
—, sizing, amylaceous fabric, removal from of, using, 1,505,534
—, —, —, fiber, removal from of, using, 1,505,534
Ammonium silicofluoride, formation of, 1,355,588; 1,357,025
—, potassium compounds extracted from silicates by, 1,355,381
—, preparation of, 1,355,381
—, *see Ammonium fluosilicate*
Ammonium silver glycoholate, mfr. of, alcohol for, 1,161,866
—, —, ammonium glycoholate for, 1,161,866
—, —, ammonium hydroxide for, 1,161,866
—, —, barium glycoholate for, 1,161,866
—, —, barium hydroxide for, 1,161,866
—, —, charcoal, animal, for, 1,161,866
—, —, ether for, 1,161,866
—, —, glycoholic acid for, 1,161,866
—, —, process for, 1,161,866
—, —, silver acetate for, 1,161,866
—, —, silver glycoholate for, 1,161,866
—, —, silver oxide for, 1,161,866
—, —, silver sulfate for, 1,161,866

Ammonium sludge sulfonate, aluminum sludge sulfonate made with, 1,271,387
—, cylinder stock, treatment of using, 1,439,171
—, gas oil, treatment of using, 1,439,171
—, gasolene, treatment of using, 1,439,171
—, kerosene, treatment of using, 1,439,171
—, lubricating oil, treatment of using, 1,439,171
—, mfr. of, sludge sulfonic acid tar for, 1,271,387
—, naphtha, treatment of using, 1,439,171
—, oil, mineral, treatment of using, 1,439,171
—, paraffin, treatment of using, 1,439,171
—, paraffin distillate, treatment of using, 1,439,171
—, paraffin slop, treatment of using, 1,439,171
—, petroleum, treatment of using, 1,439,171
—, scale wax, treatment of using, 1,439,171
—, sludge sulfonic acid made with, 1,271,387
—, sulfates, separation of from, process for, 1,271,387
—, sulfites, separation of from, process for, 1,271,387
Ammonium soaps, saponifying agent, 1,464,928
—, *see also Soap, aluminum*
Ammonium-soda-process, conducting, 1,423,510
Ammonium sodium fluoborate, preparation of, 1,347,845
Ammonium sodium hydrogen phosphate, producing, 1,357,120
Ammonium sodium phosphate, airplane fabric made with, 1,427,941
—, balloon fabric made with, 1,427,941
—, tent fabric made with, 1,427,941
—, underwriters cloth made with, 1,427,941
—, *see Sodium ammonium phosphate*
—, $Na(NH_4)HPO_4$, mfr. of, process for, 1,357,120
Ammonium sodium sulfate, 1,366,301
—, aluminum hydroxide made with, 1,493,320
—, ammonium sulfate made with, 1,332,419
—, decomposition of, 1,366,302; 1,366,303
—, decomposing, process for, 1,364,822
—, preparation of, 1,366,302; 1,366,303
—, sodium sulfate made with, 1,332,419
—, *see Sodium ammonium sulfate*
Ammonium stearate, alcohol, solidified, made with, 1,484,190
—, benzene, solidified, made with, 1,484,190
—, butane, solidified, made with, 1,484,190
—, candle made with, 1,229,132
—, carbon tetrachloride, solidified, made with, 1,484,190
—, coal distillate, solidified, made with, 1,484,190
—, distillate fuel oil, solidified, made with, 1,484,190
—, ethers, solidified, made with, 1,484,190
—, finish remover made with, 1,147,851
—, formaldehyde product sealed by composition contg., 1,371,724
—, fuel, solidified, made with, 1,484,190
—, fuel oil, solidified, made with, 1,484,190
—, gas oil, solidified, made with, 1,484,190
—, gasolene, solidified, made with, 1,484,190
—, gas tar, solidified, made with, 1,484,190
—, hydrocarbon, solidified made with, 1,484,190
—, kerosene, solidified, made with, 1,484,190
—, naphtha, solidified, made with, 1,484,190
—, paint remover made with, 1,143,130
Ammonium stearate, paper, waterproof coating for contg., 1,266,955; 1,266,956
—, petroleum, solidified, made with, 1,484,190
—, preparation of, 1,371,724
—, toluene, solidified, made with, 1,484,190
—, turpentine, solidified, made with, 1,484,190
—, varnish remover made with, 1,143,130
—, *see also Soap, ammonia*
Ammonium sulfate, acetaldehyde made with, 1,511,754
—, adhesive made with, 1,378,128
—, airplane dope contg., 1,429,295
—, airplane fabric made with, 1,427,941; 1,429,295
—, airplane fabric fireproofed with, 1,427,941
—, alcohol made with, 1,227,374; 1,245,818; 1,511,754
—, alloy resistant to, 1,393,388
—, alum from, 1,388,436
—, aluminum ammonium sulfate made with, 1,232,553
—, aluminum hydroxide made with, 1,280,636
—, aluminum oxide made with, 1,280,636
—, aluminum sulfate made with, 1,280,636
—, ammonia made with, 1,204,843; 1,310,306; 1,366,303
—, ammonia absorbed by, 1,291,729
—, ammonia recovered from, 1,377,493
—, ammonia and sodium bisulfate for mfr., 1,366,301
—, ammonium aluminum sulfate made with, 1,254,229; 1,280,636
—, ammonium carbonate made with, 1,152,244; 1,152,245
—, ammonium chrome alum from, 1,403,960
—, ammonium(ic) citrate made with, 1,508,448
—, ammonium metaphosphate made with, 1,514,912
—, ammonium perchlorate made with, 1,273,477; 1,284,380; 1,320,160; 1,338,357; 1,342,956
—, ammonium persulfate made with, 1,477,099
—, ammonium phosphate $(NH_4)_2HPO_4$, made with, 1,251,742; 1,514,912
—, —, $(NH_4)H_2PO_4$, made with, 1,514,912
—, —, $(NH_4)_3PO_4$, made with, 1,251,742; 1,514,912
—, ammonium-potassium-hydrogen phosphate made with, 1,357,120
—, ammonium potassium phosphate, $K(NH_4)HPO_4$, made with, 1,357,120
—, ammonium potassium sulfate made with, 1,261,116; 1,261,117
—, ammonium pyrophosphate made with, 1,514,912
—, ammonium silicate made with, 1,270,093
—, ammonium sodium sulfate, mfr. of, 1,325,605
—, ammonium sulfate made with, 1,325,605
—, ammonium sulfite for, 1,326,045
—, antimony made with, 1,513,775
—, arsenic recovered with, 1,258,934
—, asphalt tempered with, 1,328,310; 1,372,467
—, barium sulfate made with, 1,303,426
—, balloon fabric made with, 1,427,941
—, bacteria compost made with, 1,254,366
—, battery, dry, made with, 1,490,450

Ammonium sulfate, battery, electrode for, made with, 1,156,316; 1,433,602
—, —, electrolyte for, made with, 1,487,235
—, —, primary, copper oxide electrode for, made with, 1,486,955
—, battery, storage, electrode for, made with, 1,215,907; 1,228,546; 1,260,472; 1,303,513; 1,342,953; 1,427,970
—, —, —, electrolyte, congealed for, made with, 1,183,009
—, battery plate made with, 1,342,953; 1,374,076
—, binder for aluminum oxide, hydrated, 1,312,853
—, binder for bauxite for, 1,312,853
—, binder for clay, 1,312,853
—, binder for fire brick, 1,312,853
—, binder for flint clay, 1,312,853
—, bismuth made with, 1,513,775
—, bleaching compound made with, 1,394,151
—, block building contg., 1,305,993
—, blood antitoxin made with, 1,270,270
—, board made with, 1,245,984
—, bottle cap made with, 1,486,641
—, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, by-product in distillation of beet sugar molasses, 1,343,224
—, cadmium made with, 1,513,775
—, calcium nitrate made with, 1,288,754
—, calcium phosphate (di), made with, 1,258,106
—, calcium precipitated by, 1,394,151
—, carbon for, 1,256,273
—, carbon article made with, 1,192,062
—, carbon monoxide made with, 1,514,912
—, catalyst, nickel as, made with, 1,165,956
—, —, urea made with, 1,292,019
—, cattle feed made with, 1,227,374
—, celluloid substitute made with, 1,245,818; 1,245,975; 1,245,976; 1,245,983; 1,245,984; 1,275,324; 1,280,862; 1,427,645
—, cellulose, fireproofing of, with, 1,318,523; 1,318,524
—, —, nitrated, precipitated on fibers by, 1,398,804
—, cellulose sulfite liquor treated with, 1,284,739; 1,284,740
—, cement contg., 1,456,667
—, —, waste asbestos and, 1,365,077
—, chemical rectifier electrolyte of, 1,409,383
—, China grass, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, chromium oxide made with, 1,429,912
—, cleaning compound contg., 1,266,713
—, cloth, fireproofing of with, 1,318,523; 1,318,524
—, coal gas, removal from of, apparatus for, 1,237,767; 1,487,768
—, —, —, glycerol for, 1,237,767
—, —, recovery from of, process for, 1,237,767; 1,487,768
—, cobalt hydroxide made with, 1,135,785
—, coke oven, by-product, recovery of, 1,291,729; 1,291,730
—, copper made with, 1,513,775
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, iron, using, 1,484,690
Ammonium sulfate, copper, steel using, 1,484,690
—, copper hydroxide made with, 1,135,785
—, copper plating bath contg., 1,428,638
—, copper recovered with, 1,258,934
—, cork preserved by, 1,448,276
—, cotton, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, cotton dyed with, 1,271,067
—, cyanide as impurity in, 1,310,306
—, detergent made with, 1,144,186
—, diabetes, compound for treatment of made with, 1,470,024
—, diphenylguanidine prepared with, 1,422,506
—, drying of, 1,377,493
—, —, steam for, 1,412,549
—, dye applied in presence of, 1,426,189
—, dyeing, vat, using, 1,148,966
—, dyestuff made with, 1,408,297; 1,426,189
—, dyestuff used in presence of, 1,408,297; 1,411,245
—, electrode, Faure, made with, 1,156,316
—, electrolyte contg., 1,273,432; 1,291,310
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, electrolyte for iron purification, 1,420,127
—, electroplating process employing, 1,464,149
—, enzyme precipitated with, 1,296,599; 1,296,600
—, etching, electrolyte for, contg., 1,273,432
—, etching solution contg., 1,362,159
—, ethyl alcohol made with, 1,284,739; 1,284,740; 1,475,215
—, explosive made with, 1,320,160; 1,509,393
—, fabric, artificial, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, —, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, fabrics fireproofed with sodium stannate and, 1,358,250
—, feathers, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, ferrocyanide as impurity in, 1,313,023
—, fertilizer made with, 1,196,910; 1,200,806; 1,221,979; 1,251,742; 1,254,366; 1,258,106; 1,261,116; 1,261,117; 1,289,789; 1,309,723; 1,367,846; 1,418,618; 1,313,023; 1,441,694; 1,471,979; 1,482,479; 1,490,774; 1,514,912; 1,517,687
—, fertilizer ingredient, 1,428,259
—, fiber, animal, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, —, vegetable, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, filament, artificial, viscose, precipitated with, 1,260,508; 1,499,380
—, film, viscose, precipitation of using, 1,449,380
—, files sharpened with, 1,372,303
—, finish remover made with, 1,147,852; 1,167,641
—, fireproofing with, 1,318,523; 1,318,524; 1,346,287; 1,358,250; 1,441,061
—, fireproofing composition contg., 1,396,264
—, fireproofing solution contg., 1,382,618
—, flax, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, floor covering made with, 1,245,984

Ammonium sulfate, food product made with, 1,245,818; 1,275,324
—, formation of, 1,405,629; 1,408,754; 1,420,128; 1,420,129; 1,423,710; 1,423,711; 1,423,712; 1,425,578; 1,427,863; 1,428,879; 1,430,270; 1,457,877; 1,459,328; 1,467,321
—, formation from aluminum sulfate and ammonia, 1,336,508
—, formation from ammonium copper cyanide, 1,413,762
—, formation from cyanamide, 1,436,180
—, formation from iron sulfate, 1,342,834
—, formation in resin made with sulfuric acid, 1,389,791
—, formation from sulfur-containing oils, 1,454,593
—, fuel, gaseous, removal from of, apparatus for, 1,237,767
—, —, —, —, glycerol for, 1,237,767
—, —, —, —, process for, 1,237,767
—, furs, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, gallium made with, 1,513,775
—, galvanizing process employing, 1,464,149
—, glass etching compound contg., 1,266,713
—, globuline precipitated by, 1,397,896
—, glucose made with, 1,227,374
—, glycerol made with, 1,511,754
—, gold recovered with, 1,258,934; 1,513,775
—, guanidine impurity, 1,417,369
—, gun cleaning compound contg., 1,296,196
—, hair, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, hemp, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, hog cholera antitoxin made with, 1,270,270; 1,335,986
—, hydrogen dioxide made with, 1,195,560
—, indium made with, 1,513,775
—, insulating composition contg., 1,456,667
—, insulation, electric, made with, 1,245,975; 1,245,976; 1,245,977; 1,245,980; 1,245,981; 1,245,984
—, —, heat, made with, 1,456,667; 1,489,567
—, intestines tanned with, 1,444,548
—, iron, copper coating on, using, 1,484,690
—, —, nickel coating on, using, 1,484,690
—, iron, polishing of, using, 1,216,643
—, —, zinc coated, made with, 1,491,381
—, iron(ic) ammonium sulfate made with, 1,477,965
—, iron(ous) chloride electrolized in presence of, 1,310,381
—, iron copper plated with, 1,413,343
—, iron hydroxide made with, 1,135,785
—, iron(ic) hydroxide made with, 1,280,636
—, iron(ic) oxide made with, 1,280,636
—, iron recovered with, 1,258,934
—, iron(ic) sulfate made with, 1,280,636
—, iron sulfide as impurity in, 1,310,306
—, ivory substitute made with, 1,245,975; 1,245,976
—, jute, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, lacquer made with, 1,245,818; 1,245,981; 1,245,982; 1,275,324; 1,427,645
—, Lalande, depolarizer for contg., 1,468,234
Ammonium sulfate, lead made with, 1,513,775
—, lead grid for storage battery treated with, 1,304,192
—, lead hydroxide made with, 1,135,785
—, lead recovered with, 1,258,934
—, leather made with, 1,394,329; 1,444,548
—, leather, artificial, made with, 1,140,174; 1,245,818; 1,245,977; 1,275,324; 1,427,645
—, linoleum substitute made with, 1,245,978; 1,245,984; 1,427,645
—, lubricant made with, 1,145,877; 1,181,976
—, lubricating oil, fireproof, made with, 1,181,976
—, lutidine made with, 1,274,998; 1,274,999
—, magnesium compounds prepared with, 1,348,933
—, magnesium hydroxide prepared with, 1,348,933
—, magnesium oxide, action of on, 1,348,933
—, magnet core made with, 1,506,246
—, manganese dioxide made with, 1,212,334
—, mfr. of, 1,328,342; 1,346,106; 1,356,885; 1,364,822; 1,366,302; 1,366,303; 1,386,760; 1,465,677; 1,467,193
—, —, air for, 1,160,836; 1,274,247; 1,291,745; 1,494,735; 1,516,720
—, —, alum for, 1,152,244
—, —, aluminum as catalyst for, 1,256,273
—, —, aluminum nitride for, 1,502,129
—, —, aluminum scrap for, 1,502,129
—, —, ammonia for, 1,127,219; 1,133,086; 1,152,244; 1,152,245; 1,155,385; 1,155,753; 1,160,836; 1,163,752; 1,163,753; 1,165,368; 1,184,839; 1,206,062; 1,206,063; 1,217,247; 1,266,147; 1,291,745; 1,294,526; 1,295,635; 1,310,479; 1,313,023; 1,315,534; 1,321,993; 1,322,757; 1,322,758; 1,325,605; 1,331,784; 1,332,419; 1,462,576; 1,496,410; 1,508,736; 1,511,560; 1,516,720
—, —, ammonia compound for, 1,315,534
—, —, ammonium bicarbonate for, 1,315,534
—, —, ammonium bisulfate for, 1,291,745
—, —, ammonium bisulfite for, 1,133,086
—, —, ammonium carbonate for, 1,315,534
—, —, ammonium chloride for, 1,194,354
—, —, ammonium hydroxide for, 1,152,244; 1,160,836; 1,471,926; 1,489,360
—, —, ammonium nitrate for, 1,206,062; 1,206,063; 1,217,247
—, —, ammonium polythionate for, 1,127,219
—, —, ammonium sodium sulfate for, 1,332,419
—, —, ammonium sulfide for, 1,127,219
—, —, ammonium sulfite for, 1,133,086; 1,274,247; 1,295,635; 1,508,736
—, —, ammonium tetrathionate for, 1,127,219
—, —, ammonium thiocyanate for, 1,148,368
—, —, apparatus for, 1,145,484; 1,155,385; 1,164,429; 1,165,368; 1,206,062; 1,206,063; 1,210,598; 1,217,247; 1,266,147; 1,322,757; 1,322,758; 1,331,784; 1,332,419; 1,462,576; 1,471,926; 1,494,735; 1,496,410; 1,498,031; 1,499,626
—, —, bacteria, sulfur oxidizing, obtained using, 1,494,435
—, —, bitumen, shale contg., for, 1,494,735
—, —, calcium carbide for, 1,496,410
—, —, calcium chloride for, 1,502,129

Ammonium sulfate, mfr. of, calcium cyanamide for, 1,326,045; 1,496,410; 1,498,031
—, —, calcium hydroxide for, 1,155,753; 1,210,598; 1,266,147
—, —, calcium oxide for, 1,165,368; 1,266,147
—, —, calcium sulfate for, 1,152,244; 1,152,245; 1,274,247
—, —, carbon dioxide for, 1,152,245; 1,490,728
—, —, carbo-nitride for, 1,310,479
—, —, carbon oxysulfide for, 1,504,624
—, —, chromium as catalyst for, 1,256,273
—, —, chromium oxide as catalyst for, 1,516,720
—, —, coal for, 1,266,147; 1,462,576; 1,498,031
—, —, coal, bituminous, for, 1,210,598
—, —, coal distillation gas for, 1,160,836
—, —, coal gas for, 1,127,219; 1,148,368; 1,155,385; 1,155,753; 1,322,757; 1,322,758
—, —, coal gas, sulfur compounds in, for, 1,155,753
—, —, cobalt as catalyst for, 1,256,273
—, —, coke oven gas for, 1,155,385; 1,163,752; 1,163,753; 1,325,605
—, —, copper for, 1,496,410
—, —, cracking process for, 1,516,720
—, —, crude oil for, 1,256,273
—, —, cryolite for, 1,502,129
—, —, garbage for, 1,165,368; 1,499,626
—, —, gas, for, 1,163,752; 1,163,753
—, —, —, destructive distillation, for, 1,471,926
—, —, gas producer gas for, 1,450,562
—, —, gas retort gas for, 1,155,385
—, —, gun-powder mill refuse for, 1,165,368
—, —, gypsum for, 1,152,244; 1,152,245; 1,274,247
—, —, hydrocarbon for, 1,498,031; 1,516,720
—, —, hydrocyanic acid for, 1,148,368; 1,285,248; 1,498,031
—, —, hydrofluoric acid for, 1,511,560
—, —, hydrogen for, 1,184,839; 1,498,031; 1,516,720
—, —, hydrogen sulfide for, 1,127,219; 1,155,753; 1,490,728
—, —, illuminating gas for, 1,498,031
—, —, iridium as catalyst for, 1,217,247
—, —, iron as catalyst for, 1,256,273; 1,516,720
—, —, iron chromate as catalyst for, 1,516,720
—, —, iron hydroxide for, 1,160,836
—, —, iron ore for, 1,489,360
—, —, iron oxide for, 1,155,753; 1,160,836
—, —, iron(ic) sulfate for, 1,489,360
—, —, kerosene for, 1,516,720
—, —, lignite for, 1,266,147
—, —, lime for, 1,165,368; 1,210,598; 1,266,147
—, —, limonite for, 1,160,836
—, —, magnesium oxide for, 1,256,273
—, —, molasses for, 1,256,273
—, —, mond gas for, 1,210,598; 1,325,605
—, —, nickel as catalyst for, 1,256,273; 1,516,720
—, —, niter cake for, 1,325,605; 1,511,560
—, —, nitrate for, 1,155,753
—, —, nitrogen for, 1,184,839; 1,256,273; 1,498,031; 1,516,720
—, —, nitrogen dioxide for, 1,155,753
—, —, nitrogen oxides for, 1,155,753; 1,217,247
—, —, oil for, 1,462,576
—, —, oil shale for, 1,423,716
Ammonium sulfate, mfr. of, oxygen for, 1,160,836; 1,206,062; 1,206,063; 1,274,247; 1,291,745; 1,494,735; 1,504,624; 1,516,720
—, —, peat for, 1,164,429; 1,266,147
—, —, petroleum residuum for, 1,516,720
—, —, pitch for, 1,462,576; 1,498,031
—, —, platinum as catalyst for, 1,217,247
—, —, platinum black for, 1,496,410
—, —, potassium cyanide for, 1,285,248
—, —, potassium nitrate for, 1,165,368
—, —, process for, 1,127,219; 1,133,086; 1,140,437; 1,145,484; 1,148,368; 1,152,244; 1,152,245; 1,155,385; 1,155,753; 1,160,836; 1,163,752; 1,163,753; 1,164,429; 1,165,368; 1,184,839; 1,194,354; 1,206,062; 1,206,063; 1,207,567; 1,210,598; 1,217,247; 1,256,273; 1,266,147; 1,274,247; 1,315,534; 1,322,757; 1,322,758; 1,325,605; 1,326,045; 1,331,784; 1,332,419; 1,462,576; 1,471,926; 1,489,360; 1,490,728; 1,494,735; 1,496,410; 1,498,031; 1,499,626; 1,502,129; 1,504,624; 1,508,736; 1,511,560; 1,516,720
—, —, producer gas for, 1,307,533
—, —, pumice as catalyst carrier for, 1,516,720
—, —, salt for, 1,502,129
—, —, salt cake for, 1,511,560
—, —, sewage for, 1,499,626
—, —, sewage sludge for, 1,165,368
—, —, shale, bituminous, for, 1,494,735
—, —, shale oil gas for, 1,155,753
—, —, silk, artificial, cellulose nitrate, nitration waste liquor from, for, 1,490,728
—, —, slaughter house waste for, 1,499,626
—, —, smelter fume for, 1,496,410
—, —, smelter gas for, 1,291,745
—, —, sodium bisulfate for, 1,294,526; 1,332,419; 1,511,560
—, —, sodium carbonate for, 1,256,273; 1,266,147
—, —, sodium chloride for, 1,165,368; 1,502,129
—, —, sodium cyanide for, 1,285,248
—, —, sodium nitrate for, 1,155,753; 1,165,368
—, —, sodium sulfate for, 1,325,605; 1,511,560
—, —, sodium sulfate acid for, 1,366,302; 1,366,303
—, —, sponge, loggerhead, for, 1,140,437
—, —, steam for, 1,210,598; 1,498,031; 1,508,736; 1,516,720
—, —, "Steffen's water" for, 1,145,484
—, —, sulfur for, 1,504,624
—, —, sulfur dioxide for, 1,133,086; 1,291,745; 1,295,635; 1,326,045; 1,496,410; 1,508,736
—, —, sulfuric acid for, 1,133,086; 1,140,437; 1,145,484; 1,148,368; 1,152,244; 1,155,385; 1,155,753; 1,163,752; 1,163,753; 1,165,368; 1,184,839; 1,194,354; 1,206,062; 1,206,063; 1,217,247; 1,266,147; 1,285,248; 1,310,479; 1,313,023; 1,315,534; 1,321,993; 1,322,757; 1,322,758; 1,331,784; 1,489,360; 1,496,410; 1,499,626; 1,516,720
—, —, sulfurous acid for, 1,326,045
—, —, tannery waste for, 1,499,626
—, —, tar for, 1,498,031
—, —, thiocyanates for, 1,160,836
—, —, vanadium oxide as catalyst for, 1,516,720
—, —, water for, 1,508,736
—, —, wood for, 1,266,147

Ammonium sulfate, mfr. of, xylose for, 1,285,248
—, match made with, 1,150,857
—, marble substitute made with, 1,245,975
—, metal polish contg., 1,266,713
—, molded article made with, 1,427,645
—, mother liquor removed from, apparatus for, 1,321,993
—, neutral, mfr. of, 1,360,785
—, —, —, ammonia for 1,310,306
—, —, —, ammonium hydroxide for, 1,310,306
—, —, —, gas liquor for, 1,310,306
—, —, —, process for, 1,266,212; 1,310,306
—, neutralizing, ammonia for, 1,328,342; 1,412,549
—, —, ammonia liquor for, 1,346,106
—, —, ammonium carbonate for, 1,377,493
—, —, ammonium hydroxide for, 1,360,785
—, —, ammonium sulfide for, 1,377,493
—, —, ammonium sulfite for, 1,377,493
—, —, calcium oxide for, 1,377,493
—, —, magnesium oxide for, 1,377,493
—, nickel made with, 1,212,334
—, nickel, catalyst, made with, 1,165,956
—, —, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, iron, using, 1,484,690
—, —, steel, using, 1484,690
—, nickel-ammonium sulfate made from, 1,381,558
—, nickel hydroxide made with, 1,135,785
—, nitrogen chloride made with, 1,367,530
—, nitrogen trichloride made with, 1,367,530
—, oil cloth, imitation, made with, 1,140,174
—, oil gas, removal from of, apparatus for, 1,237,767
—, —, —, glycerol for, 1,237,767
—, —, —, process for, 1,237,767
—, casein filaments precipitated by, 1,375,823; 1,375,824
—, packing, lubricating, made with, 1,145,877
—, paper preserved by, 1,448,276
—, phenol aldehyde condensate substitute made with, 1,245,975; 1,245,976
—, phenols as impurity in, 1,310,306
—, phosphates solubilized with, 1,428,259
—, photographic material hardened with, 1,424,062
—, picoline made with, 1,274,998; 1,274,999
—, pituitary extract precipitated with, 1,373,551
—, plastic made with, 1,206,076; 1,245,981; 1,245,984
—, polish contg., 1,216,643
—, potassium aluminum sulfate made with, 1,254,229
—, potassium compounds made with, 1,514,912
—, potassium compounds recovered with, 1,344,830
—, potassium sulfate made with, 1,261,116; 1,261,117
—, potato growing mixture contg., 1,417,248
—, preparation of, 1,425,577
—, preparation from sodium ammonium sulfate, 1,332,419
—, preparation from titanium nitride, 1,343,441
—, printing plate, electrotype, made with, 1,210,872
—, propanetriol made with, 1,368,023
Ammonium sulfate, proteids extracted with, 1,427,645
—, proteids made with, 1,275,324
—, proteid product made with, 1,245,818; 1,245,975; 1,245,976; 1,245,981
—, purification of, apparatus for, 1,266,212; 1,321,993
—, —, process for, 1,266,212
—, purifying of, 1,412,549
—, —, process for, 1,364,822
—, pyridine made with, 1,274,998; 1,274,999
—, pyridine dehydrated with, 1,416,205; 1,416,206
—, pyridine made from solution contg., 1,275,000; 1,377,493; 1,414,441
—, quinoline made with, 1,274,998; 1,274,999
—, ramie, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, recovery of, 1,291,729; 1,291,730
—, —, coke-oven gas for, 1,307,534; 1,307,571; 1,309,143
—, —, gas for, 1,366,111; 1,375,475; 1,375,476; 1,375,477; 1,375,478
—, —, illuminating gas for, 1,309,143
—, —, producer gas for, 1,307,571; 1,309,143
—, rhea, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, rifle barrel, cupro-nickel fouling in, using, 1,484,690
—, road paving made with, 1,328,310
—, roofing made with, 1,197,307; 1,206,076
—, rubber, imitation, made with, 1,245,818 1,275,324
—, rubber substitute made with, 1,245,975; 1,245,976; 1,245,979; 1,245,984; 1,427,645
—, shingle made with, 1,197,307
—, shingle, fireproofing of, using, 1,346,287
—, silicic acid made with, 1,270,093
—, silk, artificial, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, —, viscose, precipitation of using, 1,200,774; 1,399,587; 1,419,714; 1,449,380; 1,509,338
—, silver recovered with, 1,258,934; 1,513,775
—, sodium hydroxide neutralized by, 1,378,128
—, sodium nitrate, action on of, 1,301,047
—, sodium sulfate made with, 1,284,380
—, sodium sulfate, double salt with, 1,294,526
—, sodium sulfate separation of from, 1,294,526; 1,366,301; 1,366,302; 1,366,303
—, solutions of, pervaporation of through membranes, 1,409,185
—, steel, copper coating on, using, 1,484,690
—, —, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, nickel coating on, using, 1,484,690
—, steel alloy made with, 1,506,246
—, stone, artificial, made with, 1,456,667
—, storage battery electrodes prepared with, 1,427,970
—, storage battery separator made with, 1,463,864
—, sulfite waste liquor treated with, 1,397,039
—, sulfur compounds as impurity in, 1,310,306
—, sulfuric acid as impurity in, 1,313,023
—, tanning compound made with, 1,394,151; 1,497,672
—, tent fabric made with, 1,427,941

Ammonium sulfate, textiles preserved by, 1,448,276
—, thallium made with, 1,513,775
—, tile made with, 1,245,984
—, titanium separated from iron by, 1,357,690
—, underwriters cloth made with, 1,427,941
—, urea made with, 1,241,919; 1,241,920
—, varnish made with, 1,245,818; 1,275,324; 1,280,861; 1,427,645
—, vegetable fibers treated with, 1,400,380
—, vegetable glue made with, 1,378,105; 1,378,128
—, viscose, precipitation of using, 1,143,569; 1,200,774; 1,449,380; 1,486,641
—, viscose precipitated by, 1,371,300; 1,375,823; 1,375,824; 1,467,265
—, viscose precipitating bath contg., 1,399,587; 1,419,714; 1,458,389; 1,464,805
—, viscose treated with, 1,140,174
—, washing of, apparatus for, 1,313,023; 1,321,993
—, water gas, removal from of, apparatus for, 1,237,767
—, —, —, glycerol for, 1,237,767
—, —, —, process for, 1,237,767
—, wood, dyeing with sulfur dye of using, 1,181,905; 1,181,906
—, wood fireproofed with, 1,274,171; 1,318,523; 1,318,524; 1,346,287; 1,441,061
—, wood preservative contg., 1,265,370; 1,274,171; 1,448,276
—, yeast food, 1,434,462; 1,449,111; Re-15,716; 1,475,215; 1,475,471
—, yeast from sugar and, 1,449,102; 1,449,103; 1,449,104; 1,449,106; 1,449,107; 1,449,108; 1,449,109; 1,449,111; 1,449,112
—, zinc made with, 1,513,775
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, iron coated with, made with, 1,491,381
—, zinc electrode treated with, 1,399,996
—, zinc extracted from minerals by, 1,444,484
—, zinc extraction with, 1,430,269; 1,430,270; 1,430,271
—, zinc oxide prepared with, 1,445,366
—, zinc plates for batteries treated with, 1,364,953
—, zinc recovered with, 1,258,934
—, zinc sulfate (basic) prepared with, 1,430,269; 1,430,270; 1,430,271; 1,445,366
—, zirconium sulfate formation, effect on, 1,460,766
Ammonium sulfide, *p*-amino-benzoic acid made with, 1,458,715
—, ammonia from, 1,444,623
—, ammonium copper cyanide from, 1,413,762
—, ammonium hydrosulfide formation from, 1,444,623
—, ammonium picramate made with, 1,472,791
—, ammonium sulfate made with, 1,127,219; 1,423,710; 1,423,711; 1,423,712
—, ammonium sulfate neutralized with, 1,377,493
—, ammonium thiosulfate made with, 1,127,219
—, anthranilic acid made with, 1,458,715
—, antimony sulfide precipitated by, 1,332,982
—, battery made with, 1,289,609
—, battery, electric, contg., 1,316,760
Ammonium sulfide, battery, primary, made with, 1,484,781
—, calcium hydroxide, action of on, 1,349,750
—, catalyst, benzine made with, 1,221,698
—, —, gasolene made with, 1,221,698
—, —, naphtha made with, 1,221,698
—, —, urea made with, 1,292,019
—, coal gas recovery from of, apparatus for, 1,487,768
—, —, —, process for, 1,487,768
—, copper(ous) cyanide, action of on, 1,413,763
—, cyanogen removed from gases with, 1,413,762
—, dye vat contg., 1,440,037
—, dyestuff made with, 1,128,368; 1,405,446; 1,440,037
—, finger print, taking of, using, 1,501,841
—, formation of, 1,349,750; 1,360,734; 1,378,595; 1,413,763; 1,423,710; 1,423,711; 1,423,712; 1,444,623; 1,454,591
—, formation from sulfur-containing oils, 1,454,593
—, gas, hydrogen sulfide, removal of from, using, 1,160,375
—, hydrogen sulfide, gas, removal from of, using, 1,160,375
—, hydroxides precipitated by, 1,337,192
—, indophenol solvent, 1,465,853
—, iron rust-proofing of with, 1,317,351
—, iron sulfide formation with, 1,352,211; Re-15,314
—, mfr. of, ammonium hydroxide for, 1,502,213
—, —, apparatus for, 1,502,213
—, —, barium sulfide for, 1,378,593
—, —, carbon electrode for, 1,502,213
—, —, electrolytic process for, 1,502,213
—, —, iron electrode for, 1,502,213
—, —, process for, 1,502,213
—, —, sulfur for, 1,502,213
—, mercury compounds, organic, action on of, 1,455,495
—, paper, rubber-latex, made with, 1,497,146
—, photography, toning bath for, contg., 1,286,890
—, pigment made with, 1,220,973
—, sodium anthranilate made with, 1,458,715
—, sodium carbonate, action of on, 1,378,593
—, sodium chloride purified with, 1,475,563
—, sodium sulfide made with, 1,378,593
—, steel, rust-proofing of with, 1,317,351
—, sugar solution, iron removed from using, 1,150,194
—, —, purification of using, 1,150,194
—, sulfide precipitated by, 1,337,380
—, sulfur made with, 1,127,219; 1,472,791
—, sulfur from petroleum with, 1,300,816
—, sulfur solvent, 1,412,954
—, "sweet water," iron removed from using, 1,150,194
—, —, purification of using, 1,150,194
—, vulcanizing accelerator made with, 1,473,285
Ammonium sulfite, ammonium potassium phosphate $K(NH_4)HPO_4$, made with, 1,357,120
—, ammonium sulfate made with, 1,133,086; 1,274,247; 1,295,635; 1,326,045; 1,425,577; 1,425,578; 1,427,863; 1,508,736
—, ammonium sulfate neutralized with, 1,377,493

Ammonium sulfite, calcium sulfite made with, 1,274,247
—, cellulose made with, 1,244,525
—, cellulose sulfite liquor fermented using, 1,221,058
—, fertilizer made with, 1,490,774
—, formation of, 1,425,578; 1,427,863
—, hide, preserving of using, 1,175,495
—, —, treatment of using, 1,205,694
—, isatin-α-arylide sulfite compounds prepared with, 1,427,863
—, mfr. of, air for, 1,160,836; 1,503,319
—, —, ammonia for, 1,160,836; 1,295,635; 1,508,736
—, —, ammonium hydroxide for, 1,160,836; 1,503,319
—, —, calcium cyanamide for, 1,326,045
—, —, coal distillation gas for, 1,160,836
—, —, cyanamide for, 1,295,635
—, —, iron hydroxide for, 1,160,836
—, —, iron oxide for, 1,160,836
—, —, limonite for, 1,160,836
—, —, oxygen for, 1,160,836
—, —, process for, 1,160,836; 1,326,045; 1,503,319 1,508,736
—, —, pyrite for, 1,503,319
—, —, steam for, 1,508,736
—, —, sulfide for, 1,503,319
—, —, sulfur dioxide for, 1,295,635; 1,326,045; 1,503,319; 1,508,736
—, —, sulfurous acid for, 1,326,045
—, —, thiocyanates for, 1,160,836
—, —, water for, 1,503,319; 1,508,736
—, nitro-aromatic compounds purified with, 1,297,524
—, oxygen removed from air with, 1,295,635
—, oxygen removed from roaster gases using, 1,503,319
—, paper made with, 1,244,525
—, paper, kraft made with, 1,244,525
—, photography, toning bath for, contg., 1,286,890
—, preparation of, 1,425,577
—, sulfite waste liquor treated with, 1,394,151
—, sulfur made with, 1,133,086
—, sulfuric acid made with, 1,133,086
—, trinitrotoluene purified with, 1,297,524
Ammonium (acid) sulfite, fog screen contg., 1,358,084
Ammonium sulfhydrate, zinc sulfide made with, 1,171,246
Ammonium sulfocyanate, see Ammonium thiocyanate
Ammonium sulfocyanide, see Ammonium thiocyanate
Ammonium sulfonate, cylinder stock, treatment of using, 1,439,171
—, fat emulsion of, made using, 1,,230,599
—, gas oil, treatment of using, 1,439,171
—, gasolene, treatment of using, 1,439,171
—, kerosene, treatment of using, 1,439,171
—, lubricating oil, treatment of using, 1,439,171
—, machine oil, emulsion of, made using, 1,230,599
—, naphtha, emulsion of, made using, 1,230,599
—, naphtha, treatment of using, 1,439,171
Ammonium sulfonate, oil, mineral, emulsion of, made using, 1,230,599
—, —, —, treatment of using, 1,439,171
—, paraffin, treatment of using, 1,439,171
—, —, emulsion of, made using, 1,230,599
—, paraffin distillate, treatment of using, 1,439,171
—, paraffin slops, treatment of using, 1,439,171
—, paraffin wax purified with, 1,438,985
—, petroleum, treatment of using, 1,439,171
—, resins, emulsions of, made using, 1,230,599
—, scale wax, treatment of using, 1,439,171
—, slack wax, treatment of using, 1,439,171
—, sunflower oil, emulsion of, made using, 1,230,599
—, wax, emulsion of, made using, 1,230,599
Ammonium sulfooxarsenates, mfr. of, 1,424,006
Ammonium tannate, candy contg., 1,450,865
—, carbon, decolorizing, made with, 1,478,985
—, cellulose sulfite liquor as emulsifier for, 1,440,356
—, charcoal, artificial, made with, 1,478,985
—, confection contg., 1,450,865
—, emulsifying with, 1,440,356
—, ink contg., 1,449,067
—, lozenge contg., 1,450,865
—, pill contg., 1,450,865
—, powder contg., 1,450,865
—, tablet contg., 1,450,865
Ammonium tartrate, ammonium potassium phosphate, $K(NH_4)HPO_4$, made with, 1,357,120
—, blue print paper made with, 1,500,433
—, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, bread made using, 1,131,698
—, candy contg., 1,450,865
—, condenser electrolyte for contg., 1,270,784
—, confection contg., 1,450,865
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, electrolyte contg., 1,273,432; 1,387,471
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, electrolyte for iron purification contg., 1,420,128; 1,420,129
—, electrolytic cell electrolyte for contg., 1,270,784
—, etching, electrolyte for, contg., 1,273,432
—, lead grid for storage battery treated with, 1,304,192
—, lightning arrester electrolyte for contg., 1,270,784
—, lozenge contg., 1,450,865
—, media contg., 1,400,374
—, nickel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, photographic material hardened with, 1,424,062
—, pill contg., 1,450,865
—, powder contg., 1,450,865
—, rust removed by, 1,459,910
—, steel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, tablet contg., 1,450,865
—, wheat flour, bleached using, 1,131,698
—, yeast made with, 1,475,494

Ammonium tartrate, yeast food made with, 1,519,801
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Ammonium tetraborate, lightning arrester made with, 1,238,660
—, ammonium sulfate made with, 1,127,219
Ammonium tetrathionate, sulfur made with, 1,127,219
—, ammonium thiosulfate made with, 1,127,219
Ammonium thioantimonite, battery, electric, contg., 1,316,760
Ammonium thioarsenate, battery, electric, contg., 1,316,760
—, mfr. of, 1,422,945
Ammonium thioarsenite, battery, electric, contg., 1,316,760
Ammonium thiocyanate, ammonium salt made with, 1,148,368
—, ammonium sulfate made with, 1,148,368
—, carbon oxysulfide made with, 1,148,368
—, cellulose acetate coagulating bath contg., 1,467,493
—, cellulose acetate dyed in presence of, 1,398,357
—, cellulose acetate filaments made with, 1,465,994
—, cellulose acetate prepared for dyeing with, 1,398,357
—, cellulose acetate solvent, 1,467,493
—, cellulose acetate treated with, 1,425,364
—, detonator made with, 1,194,095
—, formation from cyanogen from gases, 1,413,762
—, formation in gas purification, 1,412,954
—, linoleum made with, 1,262,302
—, mfr. of, coal gas for, 1,148,368
—, methylhexamethylenetetramine thiocyanate from, 1,336,709
—, refrigeration process using, 1,246,866
—, varnish (oil), made with, 1,262,302
Ammonium thionamate, mfr. of, apparatus for, 1,496,410
—, —, calcium carbide for, 1,496,410
—, —, calcium cyanamide for, 1,496,410
—, —, copper for, 1,496,410
—, —, platinum black for, 1,496,410
—, —, process for, 1,496,410
—, —, smelter fume for, 1,496,410
—, —, sulfur dioxide for, 1,496,410
—, —, sulfur trioxide for, 1,496,410
—, —, sulfuric acid for, 1,496,410
Ammonium thiostannate, battery, electric, contg., 1,316,760
Ammonium thiosulfate, ammonium polythionate made with, 1,127,219
—, fog screen contg., 1,358,084
—, fungicide made with, 1,515,803
—, insecticide made with, 1,515,803
—, mfr. of ammonia for, 1,127,219
—, —, ammonium polythionate for, 1,127,219
—, —, ammonium tetrathionate for, 1,127,219
—, —, coal gas for, 1,127,219
—, —, hydrogen sulfide for, 1,127,219
—, —, process for, 1,127,219
Ammonium thorium chloride, thorium tetrachloride made with, 1,437,984
Ammonium titanium sulfate, see Titanium ammonium sulfate
Ammonium trinitrocresylate, explosive made with, 1,320,160
Ammonium trinitrophenate, see also Ammonium picrate
Ammonium trithiocarbonate, vulcanizing accelerator made with, 1,473,285
Ammonium tungstate, adhesive, fireproof, made with, 1,248,092
—, ammonia, catalyst for the mfr. of, made with, 1,148,570; 1,152,930; 1,175,693
—, catalyst (for ammonia mfr.), made with, 1,148,570; 1,152,930; 1,175,693
—, —, (for hydrocyanic acid mfr.), made with, 1,352,176
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,248,092
—, insulation, electric, made with, 1,246,810; 1,248,638
—, lubricant made with, 1,145,877
—, mfr. of, tungsten(ic) oxide for, 1,299,017
—, packing, lubricating, made with, 1,145,877
—, paint, fireproof, made with, 1,248,092
—, paper, fireproof sizing for, made with, 1,248,092
—, preparation of, 1,418,081; 1,423,338
—, starch, fireproof, made with, 1,248,092
—, tungsten made with, 1,175,693; 1,483,567
—, tungsten amide from, 1,352,176
—, tungsten filament made with, 1,290,017
—, tungsten filament drawn using lubricant made with, 1,156,492
—, tungsten oxide, WO_3, made with, 1,244,082
—, tungsten trioxide from, 1,423,338
—, varnish, fireproof, made with, 1,248,092
—, *see also Ammonium paratungstate*
Ammonium vanadate, ammonia, catalyst for the mfr. of, made with, 1,148,570; 1,152,930
—, aniline black made with, 1,350,600
—, catalyst (for ammonia mfr.), made with, 1,148,570; 1,152,930
—, —, (for nitrogen oxides mfr.), made with, 1,420,201
—, catalyst (for phthalic anhydride mfr.), made with, 1,488,239
—, —, (for phthalimide mfr.), made with, 1,488,239
—, —, (for sulfuric acid mfr.), made with, 1,420,202
—, —, vanadium pentoxide as, made with, 1,458,478
—, catalyst for oxidation of sulfur dioxide, 1,371,004
—, drawing on paper prepared with gallic acid by, 1,343,978
—, dyestuff made with, 1,350,600
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,420,201
—, phthalic anhydride, catalyst for the mfr. of, made with, 1,488,239
—, phthalimide, catalyst for the mfr. of, made with, 1,488,239
—, sulfuric acid, catalyst for the mfr. of, made with, 1,420,202
—, tungsten-molybdenum-vanadium-gold alloy prepared with, 1,418,081

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Ammonium vanadate, vanadium oxide from, 1,420,201
—, vanadium(ic) oxide catalyst made with, 1,463,206
—, vanadium pentoxide made with, 1,420,202; 1,420,203
—, vanadium pentoxide, catalyst, made with, 1,458,478
Ammonium zeolite, catalyst, dehydrogenation, made with, 1,215,396
—, —, hydrogenation, made with, 1,215,396
—, dehydrogenation, catalyst for, made with, 1,215,396
—, hydrogenation, catalyst for, made with, 1,215,396
Ammonium zincate, cellulose, fireproofing of with, 1,318,523; 1,318,524
—, cloth, fireproofing of with, 1,318,523; 1,318,524
—, fireproofing with, 1,318,523; 1,318,524; 1,388,824
—, wood, fireproofing of with, 1,318,523; 1,318,524
Ammonium zinc chloride, battery, dry, made with, 1,481,178
—, *see Zinc ammonium chloride*
Ammonium zinc sulfate, Japanese lacquer dried with, 1,429,542
—, *see also Zinc ammonium sulfate*
Ammunition, lubricant for, Japan wax as, 1,327,378
—, —, paraffin as, 1,327,378
—, mfr. of ammonium carbonate for, 1,187,779; 1,192,678
—, —, celluloid for, 1,192,678
—, —, cellulose nitrate for, 1,187,779; 1,192,678
—, —, explosive for, 1,187,779
—, —, petroleum jelly for, 1,187,779
—, —, process for, 1,187,779; 1,192,678
—, —, vaseline for, 1,192,678
—, *primer for, see Primer*
—, small-arms, primer for, 1,311,872
—, —, —, mfr. of, 1,312,156
—, —, —, *see also Primer*
—, *see also Cartridge; Cartridge case; Projectile; Dynamite; Explosive*
Amœbæ, destroying, pressure for, 1,355,476
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Amphibies, preserving of, alcohol for, 1,163,645
—, —, chloroform for, 1,163,645
—, —, *colophonium citricum* for, 1,163,645
—, —, fat for, 1,163,645
—, —, hydrocarbon for, 1,163,645
—, —, mercury(ic) chloride for, 1,163,645
—, —, paraffin for, 1,163,645
—, —, process for, 1,163,645
—, —, resin for, 1,163,645
—, —, wax for, 1,163,645
—, —, xylene for, 1,163,645
Amphibole, paint contg., 1,317,225
—, plastic made with, 1,206,076
—, roofing made with, 1,206,076
—, tire puncture-healing composition made with, 1,233,753
—, *see also Asbestos; Hornblende*
Amphoteric metal salt, zeolite, artificial, made with, 1,515,007
Amplifier, phonographic, formula, plaster of Paris, glue, fabric, 1,372,269
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Amygdalin, decomposition products of, 1,416,128
—, graphite, colloidal, made with, 1,175,958
—, mercury compound of, 1,354,105
—, removing from fruit kernels, 1,416,128
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Amyl-acetic ether, see Amyl acetate
Amyl acetate, abalone, imitation made with, 1,434,157
—, acacia as emulsifier of, 1,440,356
—, acetic acid from, 1,426,457
—, adhesive contg., 1,379,837
—, adhesive made with, 1,389,084
—, adhesive for, radium luminous material contg., 1,364,950
—, agar-agar as emulsifier of, 1,440,356
—, airplane dope contg., 1,329,386; 1,388,825; 1,388,827; 1,388,828; 1,393,355; 1,427,941; 1,429,295
—, airplane dope made fireproof, with, 1,309,581
—, airplane fabric made with, 1,427,941; 1,429,295
—, airplane fabric mending composition made with, 1,389,084
—, airplane fuel contg., 1,420,006; 1,420,007
—, airplane propeller made with, 1,335,846
—, airplane propeller, copper coated, made with, 1,282,268
—, —, laminated metal coating for, made with, 1,282,268
—, albumen as emulsifier of, 1,440,356
—, alcohol, gasolene, rendering miscible of and using, 1,233,333
—, aldehyde ammonia compounds made with, 1,456,702
—, aluminum oleate solvent, 1,243,780; 1,304,120
—, ammonium tannate as emulsifier of, 1,440,356
—, amyl alcohol made with, 1,214,919; 1,221,667
—, antimony trichloride dissolved by, 1,451,313
—, antimony trichloride solvent, 1,388,824; 1,388,825; 1,388,826; 1,388,827; 1,388,828; 1,388,829; 1,418,609
—, apple oil, synthetic, made with, 1,366,541
—, arsenical solution contg., 1,456,509
—, article, copper coated, made with, 1,282,268
—, asphalt, fireproofing of using, 1,388,826; 1,388,829
—, automobile top made with, 1,360,763
—, balloon fabric made with, 1,378,804; 1,427,941
—, battery, dry, made with, 1,515,945
—, —, —, zinc electrode for, made with, 1,515,945
—, —, storage, container for, made with, 1,306,679
—, belt made with, 1,503,453
—, binder made with, 1,242,491; 1,409,275
—, boat mending composition made with, 1,389,084
—, brake lining made with, 1,414,378; 1,429,267
—, brass, tarnish prevented of, composition for contg., 1,146,336
—, brick, coating of using, 1,195,978
—, bromine, removal of from, barium for, 1,233,333

Amyl acetate, bromine, removal of from, calcium for, 1,233,333
—, —, —, potassium for, 1,233,333
—, —, —, process for, 1,233,333
—, —, —, sodium for, 1,233,333
—, —, —, strontium for, 1,233,333
—, bronze powder applied with, 1,335,846
—, bronze powder applied to airplane propellers with, 1,335,176
—, bronzing paint made with, 1,158,962
—, brush, celluloid-back, made with, 1,472,165
—, casein as emulsifier of, 1,440,356
—, celluloid made with, 1,240,616; 1,508,457; 1,508,483; 1,508,484
—, celluloid decorating of using, 1,235,037
—, —, fireproofing of using, 1,388,825
—, —, gelatin, cementing of and using, 1,145,143
—, celluloid article made with, 1,434,157
—, celluloid cement contg., 1,148,908
—, celluloid cemented with, 1,434,157
—, celluloid solvent, 1,128,094; 1,146,336; 1,146,391; 1,153,574; 1,167,468; 1,197,019; 1,205,822; 1,221,457; 1,235,154; 1,300,550; 1,342,767; 1,361,783; 1,377,677; 1,382,613; 1,425,510; 1,472,165; 1,477,880; 1,477,881; 1,477,882; 1,477,883
—, celluloid substitute made with, 1,153,596; 1,158,961; 1,188,356; 1,217,027
—, cellulose acetate article, decorating of using, 1,506,014
—, —, film made with, 1,342,601; 1,342,602
—, —, plasticizer, 1,388,472
—, —, solvent, 1,142,619; 1,370,879; 1,410,790
—, cellulose acetate solvent contg., 1,160,979; 1,165,179; 1,181,758; 1,199,800; 1,309,980; 1,388,472; 1,393,355; 1,408,095
—, cellulose ester solvent, 1,342,267; 1,342,268; 1,375,208; 1,389,084; 1,390,252; 1,408,095; 1,437,952
—, —, solvent contg., 1,400,196
—, ether, film prevented from curling by, 1,429,179
—, —, solvent, 1,217,027; 1,217,028; 1,389,084; 1,429,179; 1,437,952; 1,505,043
—, —, solvent contg., 1,434,465; 1,469,816; 1,469,825
—, cellulose formate made with, 1,153,596
—, cellulose nitrate, gelatin, cementing of and using, 1,145,143
—, —, article, decorating of using, 1,506,014
—, —, coating made with, 1,320,458
—, —, coating made fireproof with, 1,309,581
—, —, dissolved by, 1,355,978; 1,390,252
—, —, explosive contg., 1,303,115
—, —, gelatinizer, 1,468,608
—, —, solvent, 1,142,619; 1,147,850; 1,158,961; 1,195,673; 1,196,144; 1,197,019; 1,202,490; 1,208,358; 1,233,333; 1,242,491; 1,251,862; 1,254,791; 1,262,825; 1,265,648; 1,267,445; 1,320,458; 1,323,624; 1,329,386; 1,341,207; 1,341,710; 1,355,976; 1,356,440; 1,360,759; 1,360,763; 1,369,467; 1,370,878; 1,372,021; 1,375,208; 1,378,804; 1,381,412; 1,393,355; 1,397,042; 1,398,239; 1,410,790; 1,414,115; 1,419,258; 1,427,754; 1,427,941; 1,429,295; 1,436,231; 1,438,395; 1,456,782; 1,493,207; 1,493,208
Amyl acetate, cellulose nitrate, solvent contg., 1,133,062; 1,135,026; 1,148,258; 1,152,625; 1,158,265; 1,160,979; 1,181,758; 1,190,806; 1,190,807; 1,253,956; 1,266,073; 1,290,794; 1,309,981; 1,321,611; 1,321,633; 1,321,634; 1,322,786; 1,400,196; 1,408,095; 1,439,293; 1,480,016; 1,496,457; 1,503,453; 1,508,457
—, —, solvent made with, 1,148,258; 1,408,325
—, ceresin solvent, 1,277,904
—, chlor-compounds, separation from of, sulfuric acid for, 1,278,198
—, chlorine, removal of from, barium for, 1,233,333
—, —, —, calcium for, 1,233,333
—, —, —, potassium for, 1,233,333
—, —, —, process for, 1,233,333
—, —, —, sodium for, 1,233,333
—, —, —, strontium for, 1,233,333
—, chlorpentanes for mfr. of, 1,374,666
—, cigarette tip made with, 1,153,574
—, clay as emulsifier of, 1,440,356
—, cleaning and polishing compound contg., 1,340,747
—, clutch facing made with, 1,270,559
—, coating composition made with, 1,358,914; 1,360,763; 1,395,242
—, color carrier made with, 1,206,000
—, colored leaf made with, 1,158,265
—, colored light made with, 1,388,501
—, color screen made with, 1,206,000
—, composition of, 1,197,019
—, concrete article made with, 1,379,837
—, container made with, 1,355,976
—, copal solvent, 1,233,333
—, copper, tarnish prevented of, composition for contg., 1,146,336
—, cotton, waterproofing of, using, 1,395,242
—, cotton drill, coating of, made with, 1,468,818
—, cotton line, waterproofing of, using, 1,165,179
—, creosote, fireproofing of, using, 1,388,826; 1,388,829
—, dextrin as emulsifier of, 1,440,356
—, diaphragm, sound reproducing, made with, 1,213,051; 1,492,982
—, dihydroxy-diphenyl-dimethyl-methane aldehyde condensate solvent, 1,158,962; 1,158,963; 1,158,964
—, —, solvent, 1,156,969; 1,158,961
—, duck, waterproofing of, using, 1,395,242
—, dyestuff, black, solvent, 1,134,486
—, electric light bulb colored with, 1,259,505
—, elemi solvent, 1,267,445
—, emulsifying of, process for, 1,440,356
—, enamel made with, 1,240,616; 1,251,710
—, enamel, undercoating composition for, made with, 1,425,510
—, etching, film, photographic, treatment of for, made with, 1,256,981
—, ethyl cellulose solvent, 1,188,376; 1,217,027; 1,217,028; 1,429,179; 1,505,043
—, —, contg., 1,434,465; 1,469,816; 1,469,825
—, ethyl starch solvent, 1,350,820
—, explosive made with, 1,341,207
—, explosive, container for, made with, 1,329,503
—, fabric, coated, made with, 1,360,763; 1,468,818
—, fabric, coating of, using, 1,395,242

Amyl acetate, fabric, fireproofing of, using, 1,388,825; 1,388,827; 1,388,828
—, —, waterproof, made with, 1,242,491; 1,360,763
—, —, waterproofing of, using, 1,388,825; 1,388,827; 1,388,828; 1,395,242
—, fabric coated with, 1,184,452; 1,316,782; 1,316,783
—, fabric coated with solution contg., 1,322,786
—, filament, artificial, made with, 1,217,028
—, film made with, 1,217,027; 1,400,196; 1,480,016
—, film, flexible, made with, 1,320,458
—, —, motion picture, made with, 1,158,961; 1,158,963; 1,226,655; 1,361,783
—, —, —, colored, made using, 1,248,864; 1,281,714
—, —, —, fireproofing of using, 1,388,825
—, —, photographic, made with, 1,197,019; 1,199,800; 1,281,080; 1,342,601; 1,388,472; 1,429,179; 1,434,465; 1,519,659
—, —, —, color, made with, 1,145,143
—, —, —, varying porosity of, made with, 1,256,981
—, finish remover made with, 1,145,980; 1,147,852; 1,167,640; 1,167,641; 1,169,783
—, fireproofing process using, 1,388,825; 1,388,826; 1,388,827; 1,388,828; 1,388,829
—, fishing line, waterproofing of, using, 1,165,179
—, flare made with, 1,388,501
—, flies, lure for contg., 1,168,552
—, flooring made with, 1,383,864
—, fluorescent screen made using, 1,512,200
—, formation from pentanes, 1,390,472
—, friction fabric made with, 1,429,267
—, fuel, liquid, contg., 1,420,006; 1,420,007; 1,420,622; 1,421,879; 1,480,372
—, fuse lighting torch made with, 1,388,502
—, fusel oil, synthetic, made with, 1,214,919; 1,221,667
—, gasolene, alcohol, rendering miscible of and using, 1,233,333
—, gelatin, celluloid, cementing of and using, 1,145,143
—, —, cellulose nitrate, cementing of and using, 1,145,143
—, gelatin as emulsifier of, 1,440,356
—, gelatin substitute made with, 1,217,027
—, "getter" made with, 1,284,648
—, glass, reinforced, made with, 1,128,094; 1,228,165
—, —, unbreakable, made with, 1,342,267
—, glue as emulsifier of, 1,440,356
—, glycerol resin solvent, 1,443,936
—, gold, tarnish prevented of, composition for contg., 1,146,336
—, gold leaf made with, 1,267,445
—, gold leaf, imitation, made with, 1,158,265; 1,160,979; 1,253,956; 1,387,068
—, golf ball made with, 1,202,490
—, golf ball coating contg., 1,419,258
—, gum, artificial, solvent, 1,225,748; 1,225,749; 1,225,750
—, gums as emulsifier of, 1,440,356
—, gum solvent, 1,379,837
—, hair, artificial, made with, 1,217,028
—, hat, straw, filler for, made with, 1,213,435
Amyl acetate, hemicellulose as emulsifier of, 1,440,356
—, Hessian fly, lure for contg., 1,168,552
—, hexamethylenetetramine solvent, 1,146,391
—, hydrocarbon, paraffin, separation from of, sulfuric acid for, 1,278,198
—, —, polymethylene, separation from of, sulfuric acid for, 1,278,198
—, incendiary composition made with, 1,382,805; 1,382,806
—, insecticide contg., 1,456,509
—, insects, lure for contg., 1,168,552
—, insulation, electric, made with, 1,493,062
—, isinglass as emulsifier of, 1,440,356
—, kaolin as emulsifier of, 1,440,356
—, lacquer contg., 1,358,914; 1,377,677; 1,406,498
—, lacquer ingredient, 1,437,170
—, lacquer made with, 1,187,231; 1,195,673 1,437,170; 1,480,016
—, lacquer, tarnish prevented of, composition for contg., 1,146,336
—, lamp, incandescent, made with, 1,284,648
—, leather, artificial, contg., 1,291,180
—, —, —, coated with solution contg., 1,322,786
—, —, —, made with, 1,190,080; 1,190,806; 1,244,567; 1,262,132; 1,262,133; 1,320,458; 1,372,021; 1,493,062
—, —, —, made fireproof with, 1,309,581
—, —, —, patent, made with, 1,262,133
—, —, coated with solution contg., 1,322,786
—, —, coating for, made with, 1,320,458; 1,395,242
—, —, coating composition for, made with, 1,437,170
—, —, enameled, made with, 1,182,013
—, —, finishing the edge of using, 1,181,758
—, —, patent, made with, 1,182,013
—, —, treated with compound contg., 1,265,648
—, light transforming composition made with, 1,196,144
—, linen, waterproofing of, using, 1,395,242
—, linen line, waterproofing of, using, 1,165,179
—, lithographic master sheet prepared with varnish contg., 1,416,706
—, lithographic plate made with, 1,162,168
—, lithographic solution contg., 1,433,111
—, lubricant made with, 1,185,682
—, maline, waterproofing of using, 1,133,062
—, mfr. of, 1,374,666; 1,433,308
—, —, acetates for, 1,197,019
—, —, acetic acid for, 1,302,583
—, —, acetic acid, glacial, for, 1,197,019
—, —, alkali acetate for, 1,302,583
—, —, amyl alcohol for, 1,491,076
—, —, amylene for, 1,486,646
—, —, amylene formed during, 1,302,583
—, —, amyl hydrogen sulfate for, 1,486,646
—, —, apparatus for, 1,197,019; 1,491,076
—, —, barium for, 1,233,333
—, —, barium hydroxide for, 1,491,076
—, —, benzene for, 1,197,019
—, —, benzine for, 1,197,019
—, —, Burton oil for, 1,486,646
—, —, calcium for, 1,233,333
—, —, calcium acetate for, 1,197,019; 1,486,646
—, —, calcium chloride for, 1,197,019
—, —, chlorine for, 1,197,019

Amyl acetate, mfr. of, chlor-pentane for, 1,197,019; 1,214,919; 1,221,667; 1,233,333; 1,302,583; 1,374,666
—, —, effect of water on, 1,302,583
—, —, gasolene for, 1,197,019; 1,221,667; 1,317,868; 1,486,646
—, —, gasolene, natural gas, for, 1,197,019
—, —, hydrocarbon, chlorinated, for, 1,197,019
—, —, —, olefin, for, 1,486,646
—, —, hydrochloric acid for, 1,491,076
—, —, methyl acetate for, 1,491,076
—, —, methyl alcohol for, 1,491,076
—, —, naphtha for, 1,486,646
—, —, petroleum, cracked, for, 1,486,646
—, —, potassium for, 1,233,333
—, —, potassium acetate for, 1,197,019
—, —, potassium sulfate for, 1,302,583
—, —, process for, 1,148,258; 1,197,019; 1,214,919; 1,221,667; 1,233,333; 1,486,646; 1,491,076
—, —, shale oil, cracked, for, 1,486,646
—, —, sodium for, 1,233,333; 1,491,076
—, —, sodium acetate for, 1,197,019; 1,214,919; 1,221,667; 1,233,333; 1,317,868
—, —, sodium alcoholate for, 1,491,076
—, —, sodium carbonate for, 1,486,646
—, —, sodium hydroxide for, 1,491,076
—, —, sodium sulfate for, 1,302,583
—, —, strontium for, 1,233,333
—, —, sulfuric acid for, 1,486,646; 1,491,076
—, marshmallow as emulsifier of, 1,440,356
—, mastic solvent, 1,416,706; 1,430,632
—, mending composition made with, 1,389,084
—, metal, tarnish prevented of, composition for contg., 1,146,336
—, metal leaf made with, 1,160,979; 1,267,445
—, metal leaf, artificial, made with, 1,253,956; 1,387,068
—, molded article made with, 1,167,468; 1,383,864; 1,443,936
—, moleskin, coated, made with, 1,468,818
—, mother-of-pearl, imitation, made with, 1,254,791; 1,434,157
—, moth miller, lure for contg., 1,168,552
—, motor fuel contg., 1,420,006; 1,420,007; 1,420,622; 1,421,879; 1,423,058
—, nail polish contg., 1,388,546
—, naphthalenes, separation from of, sulfuric acid for, 1,278,198
—, net, waterproofing of using, 1,133,062
—, nickel, tarnish prevented of, composition for contg., 1,146,336
—, nitrostarch solvent, 1,388,501
—, paint contg., 1,410,790; 1,414,597
—, —, sulfite waste liquor and, 1,341,250
—, paint made with, 1,341,250; 1,408,325
—, paint, aluminum, made with, 1,158,962
—, —, anti-fouling, made with, 1,456,509
—, —, undercoating composition for, made with, 1,425,510
—, paint deodorized with, 1,422,711
—, painting, reproducing of using, 1,143,860
—, paint remover made with, 1,143,110; 1,143,111; 1,147,849; 1,147,850; 1,189,804; 1,406,175; 1,499,101
—, paper, coating of using, 1,395,242
—, paper, coated with solution contg., 1,322,786
Amyl acetate, paper, transparent coating for, applied with, 1,277,904
—, paraffin solvent, 1,277,904
—, pearls, artificial, made with, 1,254,791; 1,438,395
—, pectins as emulsifier of, 1,440,356
—, phenol aldehyde condensate made with, 1,187,231
—, —, decorating of using, 1,506,014
—, —, binder made with, 1,261,615
—, —, lacquer made with, 1,261,615
—, —, solvent, 1,087,422; Re-14,530; 14,531; 1,146,391; 1,187,231; 1,213,051; 1,225,748; 1,225,749; 1,225,750; 1,277,904
—, —, solvent contg., 1,261,615
—, —, varnish made with, 1,261,615
—, phenol condensation product solvent, 1,429,267
—, phonograph needle made with, 1,235,154
—, phonograph record made with, 1,158,964; 1,167,468
—, photographic print, colored, made with, 1,160,288
—, photographic screen, colored, made with, 1,161,731
—, photography, color, color-carrier for, made using, 1,206,000; 1,221,457
—, —, —, film for, made with, 1,477,880; 1,477,881; 1,477,882; 1,477,883
—, picture, film, photographic, treatment of for, made with, 1,256,981
—, —, reproducing of using, 1,143,860
—, pipe mending composition made with 1,389,084
—, pitch, fireproofing of using, 1,388,826; 1,388,829
—, plaster, coating of using, 1,195,978
—, plastic made with, 1,156,969; 1,158,961; 1,199,800; 1,281,080; 1,388,472; 1,389,084
—, plastic soluble in, 1,402,969
—, polish contg., 1,383,427; 1,495,613
—, polish, stove, contg., 1,304,163
—, polysaccharide as emulsifier of, 1,440,356
—, powder, smokeless, hardened with carbon tetrachloride and, 1,397,042
—, preparation of, 1,426,457
—, primer made with, 1,174,669
—, printing plate made with, 1,382,613
—, production of, chlorpentane for, 1,253,616
—, protective coating contg., 1,430,632
—, protein as emulsifier of, 1,440,356
—, purification of, barium for, 1,233,333
—, —, calcium for, 1,233,333
—, —, potassium for, 1,233,333
—, —, process for, 1,233,333
—, —, sodium for, 1,233,333
—, —, strontium for, 1,233,333
—, pyrotechnic made with, 1,388,501
—, pyroxylin solvent, 1,369,467
—, record, phonograph, made with, 1,518,443
—, recovery of, 1,420,613
—, —, absorbing agents for, 1,382,890
—, —, alcohol for, 1,395,940
—, —, apparatus for, 1,189,711; 1,315,700; 1,315,701; 1,395,940
—, —, cresol for, 1,315,700; 1,315,701
—, —, metal leaf mfr., 1,414,115

Amyl acetate, recovery of, phenol for, 1,315,700; 1,315,701
—, —, process for 1,189,711; 1,315,700; 1,315,701; 1,381,002
—, resins as emulsifier of, 1,440,356
—, rocket made with, 1,388,501
—, rubber, devulcanizing of using, 1,167,359
—, rubber article made with, 1,493,062
—, rubber cement substitute made with, 1,242,491
—, rubber mending composition made with, 1,389,084
—, sateen, coated, made with, 1,468,818
—, shellac solvent, 1,185,682; 1,243,780; 1,304,120
—, silk, artificial, made with, 1,217,028
—, —, waterproofing of using, 1,395,242
—, silk line, waterproofing of using 1,165,179
—, silver, tarnish prevented of, composition for contg., 1,146,336
—, silver leaf, imitation, made with, 1,253,956; 1,387,068
—, silver pearl, imitation, made with, 1,434,157
—, slip covers made with, 1,360,763
—, smokeless powder, manuever, made with, 1,208,358
—, soap as emulsifier of, 1,440,356
—, sponge, artificial, made with, 1,142,619
—, starch, as emulsifier of, 1,440,356
—, starch ethers solvent, 1,350,820
—, stencil made with, 1,243,780; 1,304,120
—, stereopticon slide made with, 1,181,754
—, stucco, coating of using, 1,195,978
—, sulfuric acid solution of, recovery from of, 1,278,198
—, tannic acid as emulsifier of, 1,440,356
—, tannins as emulsifier of, 1,440,356
—, tar, fireproofing of using, 1,388,826; 1,388,829
—, teeth, artificial, mending composition for, made with, 1,389,084
—, tent fabric made with, 1,427,941
—, textile, waterproofing of using, 1,133,062
—, thermoplastic made with, 1,493,207; 1,493,208; 1,493,209; 1,493,210
—, tile made with, 1,379,837; 1,383,864
—, tile, coating of using, 1,195,978
—, —, imitation, made with, 1,202,544
—, torch made with, 1,388,501
—, tragacanth as emulsifier of, 1,440,356
—, transfer-sheet made with, 1,280,399
—, trunk linings made with, 1,360,763
—, tulle, waterproofing of using, 1,133,062
—, tung oil, solidified made with, 1,383,864
—, tungsten filament made with, 1,496,457
—, undercoating composition contg., 1,425,510
—, underwriters cloth made with, 1,427,941
—, varnish contg., 1,408,325
—, varnish made with, 1,187,231; 1,195,673; 1,197,019; 1,395,242; 1,437,170
—, varnish, undercoating composition for, made with, 1,425,510
—, varnish remover made with, 1,143,110; 1,143,111; 1,147,849; 1,147,850; 1,189,804; 1,406,175; 1,499,101
—, wall, coating of using, 1,195,978
—, wall paper, coating composition for, made with, 1,425,510
Amyl acetate, waterproofing using, 1,133,062; 1,165,179; 1,388,826; 1,388,829
—, waterproofing made with, 1,242,491; 1,389,084; 1,395,242
—, waterproofing process using, 1,388,825; 1,388,827; 1,388,828
—, wax solvent, 1,277,904
—, whipcord, artificial, made with, 1,468,818
—, wood, celluloid coated, made with, 1,148,908
—, —, coating of using, 1,195,978; 1,395,242
—, —, finishing compound for contg., 1,169,930
—, —, preservative for, contg., 1,456,509
—, wood stain contg., 1,422,292
—, wood work mending composition made with, 1,389,084
—, zapon varnish contg., 1,153,574
—, zinc chloride dissolved by, 1,383,864
—, *see also Banana oil; Pentyl acetate*
iso-Amyl acetate, apple oil, synthetic, contg., 1,366,541; 1,436,290
—, —, —, made with, 1,366,541
—, boiling point of, 1,123,572
—, cellulose ether solvent contg., 1,434,465
—, ethyl cellulose solvent contg., 1,434,465
—, film, photographic, made with, 1,434,465
—, mfr. of, acetyl chloride for, 1,123,572
—, —, *tert*-amyl alcohol for, 1,123,572
—, —, dimethylaniline for, 1,123,572
—, —, process for, 1,123,572
Amyl alcohol, airplane dope made with, 1,173,931; 1,363,763
—, airplane fuel contg., 1,420,006; 1,420,007
—, alcohols made using, 1,247,629
—, alkaloids, extraction of, using, 1,504,588
—, allspice extract made with, 1,384,681
—, almond extract made with, 1,384,680; 1,384,681
—, amyl acetate from, 1,433,308; 1,491,076
—, amyl butyrate from, 1,433,308
—, amyl esters from, 1,426,457
—, amyl formate made with, 1,491,076
—, amyl oleate made with, 1,277,708
—, amyl oxalate made with, 1,433,308
—, amyl propionate made with, 1,433,308
—, amyl tartrate made with, 1,433,308
—, amyl valerate made with, 1,433,308
—, anhydroecgonine reduced by sodium and, 1,352,082
—, anise extract made with, 1,384,681
—, apple extract made with, 1,384,681
—, apricot extract made with, 1,384,681
—, art gum made with, 1,315,246
—, balata, filler for, made with, 1,315,246
—, —, substitute for, made with, 1,315,246
—, belt dressing made with, 1,315,246
—, benzene made with, 1,282,906
—, bivinyl made with, 1,282,906
—, blood product made with, 1,380,427
—, brake lining made with, 1,429,267
—, bromine, removal of from, barium for, 1,233,333
—, —, —, calcium for, 1,233,333
—, —, —, potassium for, 1,233,333
—, —, —, process for, 1,233,333
—, —, —, sodium for, 1,233,333
—, —, —, strontium for, 1,233,333
—, cassia extract made with, 1,384,681

Amyl alcohol, celery extract made with, 1,384,681
—, celluloid solvent, 1,368,954; 1,421,974
—, cellulose substitute made with, 1,363,763; 1,512,751
—, cellulose acetate precipitant, 1,363,763
—, cellulose acetate solvent contg., 1,160,979; 1,173,931; 1,181,758; 1,199,799; 1,265,217; 1,363,763
—, cellulose acetonitrate solvent contg., 1,173,931
—, cellulose ester non-solvent of ethylene dichloride and, 1,339,552
—, cellulose ester solvent contg., 1,400,196; 1,437,952
—, cellulose ether film, pre-shrinking of, using, 1,482,717
—, —, swelling of, using, 1,482,717
—, cellulose ether solvent contg., 1,411,708; 1,429,188; 1,432,374; 1,437,952; 1,469,812; 1,469,813; 1,469,862; 1,469,863; 1,479,955
—, —, solvent of phenyl propyl alcohol and, 1,444,331
—, cellulose formate precipitated by, 1,153,596
—, cellulose formyl-phosphate precipitated by, 1,153,596
—, cellulose nitrate coating made with, 1,320,458
—, —, explosive made with, 1,392,851
—, —, solvent, 1,129,770; 1,143,464; 1,147,850; 1,160,979; 1,181,758; 1,208,358; 1,320,458; 1,379,596; 1,388,546; 1,398,239; 1,400,196; 1,434,453; 1,434,454; 1,441,185; 1,510,739
—, cement made with, 1,408,325
—, cephaeline allyl ether made with, 1,219,575
—, cephaeline amyl ether made with, 1,219,574
—, cephaeline *iso*-amyl ether made with, 1,219,574
—, cephaeline *iso*-butyl ether made with, 1,219,571
—, cephaeline ethyl ether made with, 1,219,572
—, cephaeline propyl ether made with, 1,219,573
—, chalcopyrite, flotation of, using, 1,488,745
—, chewing gum, chicle substitute, made with, 1,315,246
—, chicle, substitute for, made with, 1,315,246
—, chlorine, removal of from, barium for, 1,233,333
—, —, —, calcium for, 1,233,333
—, —, —, potassium for, 1,233,333
—, —, —, process for, 1,233,333
—, —, —, sodium for, 1,233,333
—, —, —, strontium for, 1,233,333
—, cotton seed oil, extraction of, using, 1,504,588
—, detonator made with, 1,206,456
—, dihydroxy-diphenyl-dimethyl-methane solvent, 1,156,969
—, —, aldehyde condensate solvent, 1,158,962; 1,158,963; 1,158,964
—, diolefin made with, 1,282,906
—, drugs, extraction of, using, 1,504,588
—, dyestuff made with, 1,123,390
—, esters made with, 1,517,968
—, esters of, mfr. of, process for, 1,123,572
—, esters prepared with, 1,464,153
—, ethane made with, 1,282,906
—, ethanol-triethyl-arsonium-bromide made with, 1,308,413
Amyl alcohol, ethanol-triethyl-arsonium-chloride made with, 1,308,414
—, ethyl alcohol, separation of from, process for, 1,169,122
—, ethyl cellulose film, pre-shrinking of, using, 1,482,717
—, —, swelling of, using, 1,482,717
—, ethyl cellulose solvent, 1,411,677; 1,411,708; 1,432,374; 1,434,426; 1,434,427; 1,437,792; 1,458,256; 1,469,812; 1,469,813; 1,469,862; 1,469,863; 1,479,955
—, ethylene made with, 1,282,906
—, factis made with, 1,315,246; 1,376,174
—, factis depolymerized by, 1,376,174
—, fat, extraction of, using, 1,504,588
—, film made with, 1,400,196; 1,363,763; 1,479,955
—, film, flexible, made with, 1,320,458
—, —, motion picture, made with, 1,158,963; 1,411,677
—, —, photographic, made with, 1,199,799; 1,432,374; 1,411,708; 1,512,751
—, finish remover made with, 1,145,980; 1,160,394; 1,172,773; 1,147,851; 1,147,852; 1,167,640; 1,167,641; 1,169,783; 1,140,449
—, flavoring extract made with, 1,384,680; 1,384,681
—, flotation of minerals with, 1,425,185
—, flotation of ore with, 1,425,186
—, flotation process using, 1,350,364; 1,488,745
—, food product made with, 1,380,427
—, formation from petroleum by-products, 1,431,259
—, formation from pentanes, 1,390,472
—, formation of, 1,426,457
—, formation from amylenes, 1,407,770
—, friction fabric made with, 1,429,267
—, fuel, internal-combustion, contg., 1,259,053
—, —, liquid, contg., 1,204,638; 1,420,006; 1,420,007; 1,496,260; 1,496,810
—, gasolene made with, 1,282,906
—, glass, reinforced, made with, 1,228,165
—, gold leaf, imitation, made with, 1,160,979
—, graphite, colloidal, made with, 1,175,958
—, gum, artificial, made with, 1,225,748; 1,225,749; 1,225,750
—, gutta percha, filler for, made with, 1,315,246
—, hexamethylenetetramine solvent, 1,146,390
—, hydrogen and valerianic acid from, 1,389,187
—, insulation, cable, made with, 1,315,246
—, —, electric, made with, 1,315,246
—, isoprene made with, 1,282,906
—, kerosene made with, 1,282,906
—, lacquer contg., 1,411,035
—, leather, artificial, made with, 1,173,931; 1,320,458
—, —, coating for, made with, 1,320,458
—, —, finishing the edge of using, 1,181,758
—, —, patent, made with, 1,173,931
—, leather dyed using, 1,345,234
—, lemon extract made with, 1,384,680
—, lubricant made with, 1,226,165
—, mfr. of, alkali for, 1,221,667
—, —, alkali carbonate for, 1,214,919; 1,221,667
—, —, amyl acetate for, 1,214,919; 1,221,667
—, —, amyl hydrogen sulfate for, 1,486,646
—, —, amylene for, 1,438,123; 1,486,646

Amyl alcohol, mfr. of, apparatus for, 1,438,123
—, —, Burton oil for, 1,486,646
—, —, calcium formate for, 1,221,667
—, —, chlorine for, 1,214,919; 1,221,667
—, —, chlor-pentane for, 1,214,919; 1,221,667; 1,253,616
—, —, ether for, 1,214,919
—, —, formate for, 1,221,667
—, —, gasolene for, 1,214,919; 1,221,667; 1,486,646
—, —, galosene, casing head for, 1,221,667
—, —, —, chlorinated, for, 1,221,667
—, —, hydrocarbon, olefin, for, 1,214,919; 1,486,646
—, —, methyl alcohol for, 1,221,667
—, —, 2-methyl-butane for, 1,221,667
—, —, naphtha for, 1,486,646
—, —, oil gas for, 1,517,968
—, —, pentane for, 1,221,667
—, —, pentene for, 1,214,919
—, —, 1-pentene for, 1,438,123
—, —, petroleum for, 1,221,667
—, —, petroleum, cracked, for, 1,486,646
—, —, phosphoric acid for, 1,438,123
—, —, potassium formate for, 1,221,667
—, —, process for, 1,214,919; 1,221,667; 1,438,123; 1,486,646; 1,517,968
—, —, shale oil, cracked, for, 1,486,646
—, —, sodium acetate for, 1,214,919
—, —, sodium bisulfate for, 1,438,123
—, —, sodium chloride for, 1,486,646
—, —, sodium formate for, 1,221,667
—, —, sodium sulfate for, 1,486,646
—, —, sulfuric acid for, 1,214,919; 1,438,123; 1,486,646; 1,517,968
—, —, water for, 1,486,646
—, metal, cleaning of, using, 1,503,443
—, metal cleaner contg., 1,428,084
—, metal coating composition contg., 1,472,239
—, metal leaf made with, 1,160,979
—, molded article made with, 1,146,391; 1,167,468
—, motor fuel contg., 1,420,006; 1,420,007; 1,423,048; 1,423,049; 1,423,050
—, oil, animal, extraction of, using, 1,504,588
—, —, essential, extraction of, using, 1,504,588
—, —, extraction of, using, 1,504,588
—, —, mineral, extraction of using, 1,504,588
—, —, vegetable, extraction of, using, 1,504,588
—, —, vulcanized, made with, 1,315,246
—, oils purified with, 1,371,342
—, olefin made with, 1,282,906
—, orange extract made with, 1,384,680
—, oxidizing, copper for, 1,464,153
—, paint made with, 1,408,325
—, paint remover made with, 1,129,770; 1,143,110; 1,143,111; 1,147,849; 1,147,850; 1,189,804; 1,499,101
—, peach extract made with, 1,384,681
—, pear extract made with, 1,384,681
—, pegamoid made with, 1,173,931
—, phenol aldehyde condensate solvent, 1,087,422; Re-14,530; 14,531; 1,146,390; 1,167,468; 1,218,146; 1,225,748; 1,225,749; 1,225,750
—, phenol aldehyde condensate made with, 1,225,749; 1,225,750; 1,429,267
Amyl alcohol, phenol condensation product solvent, 1,429,267
—, phonograph record made with, 1,158,964; 1,167,468; 1,468,608
—, piperylene made with, 1,282,906
—, plastic made with, 1,468,608
—, potassium valerate made with, 1,389,187
—, potassium valerianate made with, 1,389,187
—, propylene made with, 1,282,906
—, purification of, barium for, 1,233,333
—, —, calcium for, 1,233,333
—, —, chromate for, 1,485,940
—, —, dioxide for, 1,485,940
—, —, permanganate for, 1,485,940
—, —, potassium for, 1,233,333
—, —, potassium permanganate for, 1,485,940
—, —, process for, 1,233,333; 1,485,940
—, —, sodium for, 1,233,333
—, —, strontium for, 1,233,333
—, record, phonograph, made with, 1,146,390; 1,146,391
—, recovery of, apparatus for, 1,315,700; 1,315,701
—, —, cresol for, 1,315,700; 1,315,701
—, —, phenol for, 1,315,700; 1,315,701
—, —, process for, 1,315,700; 1,315,701; 1,513,153
—, resorcinol solvent, 1,406,745
—, roller, printing press, made with, 1,315,246
—, rubber, filler for, made with, 1,315,246
—, —, hard, substitute for made with, 1,315,246
—, rubber substitute made with, 1,315,246
—, rust remover contg., 1,439,780
—, rust remover of hydrolyzed starch and, 1,439,780
—, secondary, purification of, 1,422,583
—, shoe sole, filler for, made with, 1,315,246
—, silk, artificial, cellulose acetate, made with, 1,363,763
—, silver soluble in, preparing, 1,413,151
—, sludge, sulfonic acid, green, solvent, 1,474,933
—, —, —, mahogany, solvent, 1,474,933
—, smokeless powder, maneuver, made with, 1,208,358
—, sodium valerate made with, 1,389,187
—, sodium valerianate from, 1,389,187
—, solidified, mfr. of, alcoholates for, 1,223,153
—, —, —, calcium chloride for, 1,223,153
—, —, —, ethyl alcohol for, 1,223,153
—, —, —, fatty acid for, 1,223,153
—, —, —, methyl alcohol for, 1,223,153
—, —, —, potassium for, 1,223,153
—, —, —, potassium hydroxide for, 1,223,153
—, —, —, potassium methylate for, 1,223,153
—, —, —, potassium stearate for, 1,223,153
—, —, —, process for, 1,223,153
—, —, —, sodium for, 1,223,153
—, —, —, sodium amylate for, 1,223,153
—, —, —, sodium ethylate for, 1,223,153
—, —, —, sodium hydroxide for, 1,223,153
—, —, —, sodium stearate for, 1,223,153
—, —, —, stearic acid for, 1,223,153
—, —, *see also Alcohol solidified*
—, suppository made with, 1,499,348
—, tile, floor, made with, 1,315,246
—, valerianic acid and hydrogen from, 1,389,187

Amyl alcohol, valeric acid made with, 1,389,187
—, vanilla extract made with, 1,384,680
—, varnish contg., 1,408,325
—, varnish remover made with, 1,129,770; 1,143,110; 1,143,111; 1,147,849; 1,147,850; 1,189,804; 1,499,101
—, vulcanite, substitute for, made with, 1,315,246
—, waterproofing made with, 1,315,246
—, wax, extraction of, using, 1,504,588
—, zinc chloride dissolved by, 1,383,864
—, *see also Fusel oil*
iso-Amyl alcohol, cellulose ether solvent contg., 1,432,374
—, ethyl cellulose solvent contg., 1,432,374
—, film, photographic, made with, 1,432,374
—, formation from amylene, 1,464,153
—, germicide made with, 1,213,465
seco-iso-Amyl alcohol, see 3-Methyl-2-butanol
tert-Amyl alcohol, acetic acid made with, 1,123,572
—, acetyl chloride, action of on, 1,123,572
—, mfr. of, *tert*-amyl vanadate for, 1,133,961
—, —, water for, 1,133,961
—, *tert*-amyl acetate made with, 1,123,572
—, *tert*-amyl benzoate made with, 1,123,572
—, *tert*-amyl bromvalerate made with, 1,123,572
—, *tert*-amyl chloride made with, 1,123,572
—, *tert*-amyl cinnamate made with, 1,123,572
—, *tert*-amyl-*p*-nitrobenzoate made with, 1,123,572
—, *tert*-amyl valerate made with, 1,123,572
—, *tert*-amyl vanadate made with, 1,133,961
—, *see also Amylene hydrate*
Amyl aldehyde, amyl aldehyde ammonia made with, 1,456,702
Amyl aldehyde ammonia, mfr. of, 1,456,702
iso-Amyl allyl amino ethyl p-aminobenzoate, see b-(N-Allyl-N-iso-amyl) aminoethyl p-aminobenzoate
iso-amyl allyl compounds, see Allyl iso-amyl compounds
Amyl amidoformate, see Amyl carbamate
Amylamine, rubber, hard, made using, 1,507,594
—, rust preventing solution contg., 1,433,226
—, tertiary, rubber vulcanizing accelerator, 1,434,909
—, vulcanization process using, 1,507,594
Amylamine-benzaldehyde condensation product, rubber vulcanizing accelerator, 1,434,909
Amylamine borate, tertiary, rubber vulcanizing accelerator, 1,434,909
Amylamine carbonate, tertiary, rubber vulcanizing accelerator, 1,434,909
Amylamine stearate, tertiary, rubber vulcanizing accelerator, 1,434,909
iso-Amylamine, rubber vulcanizing accelerator, 1,342,457
—, vulcanization process using, 1,342,457
tert-Amylamine, benzaldehyde, compound of and, 1,434,909
—, vulcanization process using, 1,434,909
tert-Amylamine borate, vulcanization process using, 1,434,909
tert-Amylamine carbonate, vulcanization process using, 1,434,909
tert-Amylamine stearate, vulcanization process using, 1,434,909
tert-Amyl-*p*-aminobenzoate, mfr. of, *tert*-amyl *p*-nitrobenzoate for, 1,123,572
—, melting point of, 1,123,572
—, solvent for, ligroin as, 1,123,572
Amylaminophenylarsenic acid, see N-amyl-arsanilic acid
bis-Amylaminophenylarsenic acid, mfr. of, 1,440,621
mono-Amylaminophenylarsenic acid, separation from *bis*-amylamidophenylarsenic acid, 1,440,621
Amylan, alkyl ethers of, 1,350,820
a-Amylan, derivatives of, starch ethers made with, 1,350,820
—, starch ethers made with, 1,350,820
—, derivatives of, starch ethers made with, 1,350,820
b-Amylan, derivatives of, starch ethers made with, 1,350,820
—, starch ethers made with, 1,350,820
Amylaniline, amylamidophenylarsenic acid from, 1,440,621
N-Amyl-aniline, *N*-amyl-arsanilic acid made with, 1,440,621
N-Amyl-aniline, *N.N*-diamyl-arsanilic acid made with, 1,440,621
N-Amyl-arsanilic acid, *bis*(*p*-amylamino-phenyl)-arsinic acid, separation of from, 1,440,621
—, mfr. of, 1,440,621
—, —, *N*-amyl aniline for, 1,440,621
—, —, arsenic trichloride for, 1,440,621
—, —, process for, 1,440,621
—, —, pyridine for, 1,440,621
Amylase, animal, preparation of, 1,444,250
—, beer, coloring for, made with, 1,178,040
—, beer wort made with, 1,178,039
—, bread made with, 1,355,128; 1,355,129
—, dry, preparing, 1,444,250
—, food, product made with, 1,178,039; 1,178,040
—, lactic acid for preventing action of, 1,355,127; 1,355,128; 1,355,129
—, pancreatic, textiles degummed with, 1,430,523
—, protecting, salts for, 1,430,523
—, preserving of, protective colloids for, 1,444,250
Amyl benzoate, cellulose acetate solvent contg., 1,199,800; 1,388,472
—, cellulose acetate plasticizer, 1,388,472
—, cellulose ether solvent for contg., 1,405,490
—, ethyl cellulose solvent for contg., 1,405,490
—, film, photographic, made with, 1,199,800; 1,388,472
—, mfr. of, apparatus for, 1,197,019
—, —, benzine for, 1,197,019
—, —, benzoates for, 1,197,019
—, —, chlorine for, 1,197,019
—, —, chlor-pentane for, 1,197,019
—, —, gasolene for, 1,197,019
—, —, gasolene, natural gas, for, 1,197,019
—, —, hydrocarbon, chlorinated, for, 1,197,019
—, —, process for, 1,197,019
—, plastic made with, 1,199,800; 1,388,472

tert-Amyl benzoate, boiling point of, 1,123,572
—, mfr. of, *tert*-amyl alcohol for, 1,123,572
—, —, benzoyl chloride for, 1,123,572
—, —, dimethylaniline for, 1,123,572
—, —, hydrochloric acid for, 1,123,572
—, —, process for, 1,123,572
—, —, sodium carbonate for, 1,123,572
Amyl bromide, amyl carbohydrate made with, 1,504,178
—, amyl cellulose made with, 1,504,178
—, amyl dextrin made with, 1,504,178
—, amyl starch made with, 1,504,178
—, cephaeline amyl ether made with, 1,219,574
iso-Amyl bromide, cephaeline *iso*-amyl ether made with, 1,219,574
—, *see 4-Brom-2-methyl-butane*
tert-Amyl bromvalerate, boiling point of, 1,123,572
—, mfr. of, *tert*-amyl alcohol for, 1,123,572
—, —, bromvaleryl chloride for, 1,123,572
—, —, dimethylaniline for, 1,123,572
—, —, process for, 1,123,572
Amyl butyrate, bread, flavoring of with, 1,155,530
—, butyric acid made with, 1,426,457
—, cellulose acetate plasticizer, 1,388,472
—, cellulose acetate solvent contg., 1,199,800; 1,388,472
—, film, photographic, made with, 1,199,800; 1,388,472
—, mfr. of, 1,433,308
—, —, apparatus for, 1,197,019
—, —, benzine for, 1,197,019
—, —, butyrates for, 1,197,019
—, —, chlorine for, 1,197,019
—, —, chlorpentane for, 1,197,019
—, —, gasolene for, 1,197,019
—, —, gasolene, natural gas, for, 1,197,019
—, —, hydrocarbon, chlorinated, for, 1,197,019
—, —, process for, 1,197,019
—, motor fuel contg., 1,421,879
—, plastic made with, 1,199,800; 1,388,472
—, preparation of, 1,426,457
Amyl caproate, apple oil, synthetic, made with, 1,366,541
iso-Amyl caproate, apple oil, synthetic, made with, 1,366,541
—, (normal), apple oil, synthetic, contg., 1,366,541
iso-Amyl-*n*-caproate, apple oil, synthetic, contg., 1,436,290
iso-Amyl caprylate, apple oil, synthetic, made with, 1,366,541
—, —, —, contg., 1,436,290
Amyl carbohydrate, mfr. of, alkali hydroxide for, 1,504,178
—, —, amyl bromide for, 1,504,178
—, —, amyl chloride for, 1,504,178
—, —, amyl iodide for, 1,504,178
—, —, carbohydrate for, 1,504,178
—, —, metal hydroxide for, 1,504,178
—, —, process for, 1,504,178
—, —, sodium hydroxide for, 1,504,178
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Amyl carbonate, see Phenyl amyl ether
Amyl cellulose, benzine as a non-solvent for, 1,504,178
—, ethyl alcohol as a non-solvent for, 1,504,178
—, filament, artificial, made with, 1,504,178
—, film, photographic, made with, 1,504,178
—, mfr. of, alkali hydroxide for, 1,504,178
—, —, amyl bromide for, 1,504,178
—, —, amyl chloride for, 1,504,178
—, —, amyl iodide for, 1,504,178
—, —, cellulose for, 1,504, 178
—, —, metal hydroxide for, 1,504,178
—, —, process for, 1,504,178
—, —, sodium hydroxide for, 1,504,178
—, methyl alcohol as a non-solvent for, 1,504,178
—, plastic made with, 1,504,178
—, silk, artificial, made with, 1,504,178
—, solvent for, acetic acid, glacial, for, 1,504,178
—, thread, artificial, made with, 1,504,178
—, varnish made with, 1,504,178
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Amyl chloride, see Chlor-pentane
—, *tertiary, see 2-Chlor-2-methyl-butane*
iso-Amyl chloride, see 4-Chlor-2-methyl-butane
n-Amyl chloride, see 1-Chlor-pentane
tert-Amyl chloride, mfr. of, acetyl chloride for, 1,123,572
—, —, process for, 1,123,572
iso-Amyl chlormethyl ketone, 3-chlor-methyl-6-methyl-3-heptanol made with, 1,150,252
—, 3-dimethylaminomethyl-6-methyl-3-heptanol made with, 1,150,252
—, mfr. of, *iso*-butyl bromide for, 1,150,252
—, —, 1-chlor-5-methyl-2-hexanol for, 1,150,252
—, —, compound, $C_8H_{19}OBrMg$, for, 1,150,252
—, —, epichlorhydrin for, 1,150,252
—, —, ethyl ether for, 1,150,252
—, —, magnesium for, 1,150,252
—, —, potassium bichromate for, 1,150,252
—, —, process for, 1,150,252
—, —, sulfuric acid for, 1,150,252
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—, dibrom derivatives of, mfr. of, process for, 1,123,572
—, —, melting point of, 1,123,572
—, mfr. of, *tert*-amyl alcohol for, 1,123,572
—, —, cinnamyl chloride for, 1,123,572
—, —, dimethylaniline for, 1,123,572
—, —, process for, 1,123,572
Amyl compound, electric light bulb colored with, 1,259,505
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Amyl dextrin, mfr. of, alkali hydroxide for, 1,504,178
—, —, amyl bromide for, 1,504,178
—, —, amyl chloride for, 1,504,178
—, —, amyl iodide for, 1,504,178
—, —, dextrin for, 1,504,178
—, —, metal hydroxide for, 1,504,178
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iso-Amyl dichloride, hydrocarbon, olefin, made with, 1,198,943
—, *see Dichlor-2-methyl-butane*
Amylene, see 1-Pentene

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—, kauri solvent, 1,315,229
—, mfr. of, alkali chloride for, 1,264,535; 1,264,536
—, —, aluminum oxide for, 1,253,615
—, —, amylene for, 1,253,615; 1,253,616; 1,264,535; 1,264,536; 1,315,229
—, —, antimonic acid for, 1,315,229
—, —, antimony salts for, 1,315,229
—, —, antimony(ic) chloride for, 1,315,229
—, —, antimony(ous) chloride for, 1,315,229
—, —, apparatus for, 1,253,615; 1,253,616; 1,264,535; 1,264,536
—, —, asbestos for, 1,315,229
—, —, calcium carbonate for, 1,253,615; 1,253,616
—, —, calcium chloride for, 1,253,615; 1,253,616
—, —, calcium hypochlorite for, 1,253,615
—, —, carbon dioxide for, 1,253,615
—, —, cerium vanadate for, 1,315,229
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—, —, charcoal for, 1,315,229
—, —, chloride for, 1,315,229
—, —, chlorine for, 1,253,615; 1,253,616; 1,264,535; 1,264,536
—, —, copper(ic) chloride for, 1,315,229
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—, —, gas, coal coked, for, 1,253,615; 1,253,616
—, —, —, petroleum cracked, for, 1,253,615; 1,253,616
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—, —, hydrochloric acid as by-product of, 1,253,615; 1,253,616
—, —, hypochlorous acid for, 1,253,615; 1,253,616; 1,264,535; 1,264,536
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—, —, manganese vanadate for, 1,315,229
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—, —, molybdenum trioxide for, 1,315,229
—, —, oil gas for, 1,253,615; 1,253,616; 1,264,535; 1,264,536; 1,315,229
—, —, olefin for, 1,315,229
—, —, osmium compound for, 1,315,229
—, —, oxygen for, 1,315,229
—, —, palladium chloride for, 1,315,229
—, —, phosphates for, 1,253,615
—, —, platinum black for, 1,315,229
—, —, platinum compound for, 1,315,229
—, —, potassium carbonate for, 1,253,615
—, —, potassium chloride for, 1,264,535; 1,264,536
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—, cellulose nitrate solvent contg., 1,160,979
—, fat contg., 1,381,564
—, finish remover made with, 1,147,851
—, gold leaf, imitation, made with, 1,169,979
—, mfr. of, amylene for, 1,486,646
—, —, Burton oil for, 1,486,646
—, —, gasolene for, 1,486,646
—, —, hydrocarbon, olefin, for, 1,486,646
—, —, naphtha for, 1,486,646
—, —, petroleum, cracked, for, 1,486,646
—, —, process for, 1,486,646
—, —, shale oil, cracked, for, 1,486,646
—, —, sulfuric acid for, 1,486,646
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—, hypnotic made with 1,478,463
—, mfr. of, ethyl *iso*-amyl-ethyl-malonate for, 1,478,463
—, —, process for, 1,478,463
—, pyramidone, condensation product of and, 1,478,463
—, sodium ethylate for, 1,478,463
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—, varnish made with, 1,357,614
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—, bromine, removal of from, barium for, 1,233,333
—, —, —, calcium for, 1,233,333
—, —, —, potassium for, 1,233,333
—, —, —, process for, 1,233,333
—, —, —, sodium for, 1,233,333
—, —, —, strontium for, 1,233,333
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—, —, cellulose acetate plasticizer, 1,388,472
—, cellulose acetate solvent contg., 1,199,800; 1,388,472
—, cellulose formate precipitated by, 1,153,596
—, cellulose formyl-phosphate precipitated by, 1,153,596
—, chlorine, removal of from, barium for, 1,233,333
—, —, —, calcium for, 1,233,333
—, —, —, potassium for, 1,233,333
—, —, —, process for, 1,233,333
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—, —, amylene for, 1,486,646
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—, —, —, olefin, for, 1,486,646
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—, —, —, methyl formate for, 1,491,076
—, —, —, naphtha for, 1,486,646
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—, —, shale oil, cracked, for, 1,486,646
—, —, sodium for, 1,491,076
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—, —, sodium hydroxide for, 1,491,076
—, —, sulfuric acid for, 1,486,646; 1,491,076
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—, —, Burton oil for, 1,486,646
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—, —, hydrocarbon, olefin, for, 1,486,646
—, —, naphtha for, 1,486,646
—, —, petroleum, cracked, for, 1,486,646
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Amyl propionate, fuel, liquid, made with, 1,421,879
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—, —, chlorine for, 1,197,019
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—, diazotization of, niter cake for, 1,320,443
—, —, sodium nitrite for, 1,320,443
—, diazotized, ureids of aminonaphthol compound coupled with, 1,308,071
—, diazotizing, 1,333,807
—, dichloronitrodiphenylamine made with, 1,329,898
—, diethylaniline from, 1,429,714
—, *N.N*-diethyl-aniline made with, 1,429,714
—, *p-N*-dimethylamino-thiocarbanilide made with, 1,477,803; 1,477,804
—, dimethylaniline made with, 1,413,494; 1,426,380
—, *N.N*-dimethyl-aniline made with, 1,429,714
—, 5.5'-dimethyldibromindigo, reaction with, 1,412,038
—, dimethyldiphenylurea made with, 1,307,570

Aniline, dimethylerythrene, aging of prevented with, 1,320,166
—, dimethylerythrene vulcanization accelerator of metal oxide, 1,320,166
—, dimethylerythrene vulcanized with, 1,320,166
—, dinitrodiphenylamine made with, 1,309,580; 1,401,631
—, diphenylamine made with, 1,212,928; 1,308,356; 1,314,538; 1,392,942; 1,422,494; 1,422,506
—, diphenylguanidine made with, 1,422,506
—, distillation, fractional of, apparatus for, 1,141,266
—, —, —, process for, 1,141,266
—, *p*-disulfatoethylamino-azobenzene made with, 1,483,084
—, documents, printing of, using, 1,514,222
—, duodecylidene, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, *duodecylidine condensate of, see Duodecylidine aniline*
—, dye composition contg., 1,276,123
—, dye, diazo-components of anilides of 2:3-oxynaphthoic acid, 1,452,083
—, dye, diazo-components of anisidids of 2:3-oxynaphthoic acid, 1,452,083
—, dye, diazo-components of arylamides of 2:3-oxynaphthoic acid, 1,452,083
—, dye, diazo-components of naphthalids of 2:3-oxynaphthoic acid, 1,452,083
—, dye, diazo-components of nitroanilids of 2:3-oxynaphthoic acid, 1,452,083
—, dye, diazo-components of phenetidids of 2:3-oxynaphthoic acids, 1,452,083
—, dye, diazo-components of *p*-phenylenediamines of 2:3-oxynaphthoic acid, 1,452,083
—, dye, diazo-components of toluidids of 2:3-oxynaphthoic acid, 1,452,083
—, dye, diazo-components of *di-m*-tolylenediamine of 2:3-oxynaphthoic acid, 1,452,083
—, dyestuff made with, 1,065,405; Re-13,969; 1,126,489; 1,128,368; 1,128,814; 1,138,670; 1,139,540; 1,151,628; 1,172,061; 1,175,997; 1,202,821; 1,209,212; 1,218,232; 1,218,655; 1,250,289; 1,261,858; 1,265,836; 1,265,837; 1,268,455; 1,270,290; 1,277,056; Re-14,824; 1,280,648; 1,283,296; 1,285,726; 1,285,727; 1,286,411; 1,292,385; 1,308,071; 1,314,922; 1,314,925; 1,314,928; 1,316,781; 1,329,898; 1,333,807; 1,350,600; 1,338,397; 1,355,048; 1,430,277; 1,447,485; 1,452,083; 1,483,084; 1,483,798; 1,497,720; 1,498,417; 1,505,568; 1,505,569; 1,506,316; 1,506,514; 1,511,074
—, dyestuff from, copper compound of, properties of, 1,292,385
—, dyestuff from *m*-phenylenediamine and, 1,333,807
—, dyestuff reduction product, 1,128,814
—, emulsifying of, process for, 1,440,356
Aniline, erythrene india rubber, aging of prevented with, 1,520,166
—, erythrene india rubber vulcanization accelerator of metal oxide and, 1,320,166
—, erythrene india rubber vulcanized with, 1,320,166
—, ethylaniline made with, 1,429,714
—, *N*-ethylaniline made with, 1,429,714
—, ethylated, mfr. of, 1,429,714
—, ethyl cellulose solvent, 1,188,376; 1,217,027; 1,217,028
—, ethyl starch solvent, 1,350,820
—, explosive made with, 1,510,348
—, fabric made with, 1,410,899
—, fat, compound of and, 1,475,477
—, fatty acid, compound of and, 1,475,477
—, filament, artificial, made with, 1,173,336; 1,217,028
—, film made with, 1,173,336; 1,217,027
—, film, color photography, colored with, 1,390,252
—, finish remover made with, 1,160,394; 1,167,640
—, fish oil, rancid, compound of and, 1,475,477
—, floor covering made with, 1,245,984
—, floor dressing made with, 1,375,477
—, flotation agent solvent, 1,394,639; 1,394,640
—, flotation process using, 1,364,304; 1,364,305; 1,364,308
—, formaldehyde, condensation product of and 1,467,984
—, formation from aniline hydrochloride and zinc hydroxide, 1,357,160
—, formation from ethyl chloride and ammonia, 1,357,160
—, garbage grease, compound of and, 1,475,477
—, gelatin as emulsifier of, 1,440,356
—, gelatin substitute made with, 1,271,027
—, glucose, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta-percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, *glucose condensate of, see Glucose aniline*
—, glue as emulsifier of, 1,440,356
—, gums as emulsifier of, 1,440,356
—, gutta-percha, aging of prevented with, 1,320,166
—, —, vulcanization accelerator for made with, 1,467,984
—, gutta percha vulcanization accelerator of metal oxide and, 1,320,166
—, gutta percha vulcanized with, 1,320,166; 1,463,794
—, (dyes), golf ball coating tinted with, 1,419,258
—, hair, artificial, made with, 1,217,028
—, hemicelluloses as emulsifier of, 1,440,356
—, heptaldehyde, compound of and, 1,417,970
—, *heptaldehyde condensation product of, see Heptaldehyde aniline*
—, heptamethylchlorarsenoxide(?) made with, 1,201,692

Aniline, homologues of, dyestuff made with, 1,202,821; 1,505,569
—, —, naphthazarin, condensation product of and, 1,202,821
—, hyposulfite, anhydrous, made with, 1,156,107; 1,207,782
—, indanthrene made with, 1,430,277
—, indigo derivatives, reaction of with, 1,414,335
—, indoxyl, mfr. of, use of, 1,293,680
—, inflammability of solvent mixtures contg., 1,499,101
—, ink, indelible, contg., 1,320,631
—, —, mimeograph, made with, 1,198,442
—, —, printing, contg., 1,259,713
—, —, stamping, made with, 1,421,728
—, insulation, electric, made with, 1,159,257; 1,217,115; 1,245,981; 1,245,984
—, isinglass as emulsifier of, 1,440,356
—, isoprene, aging of prevented with, 1,320,166
—, isoprene vulcanization accelerator of metal oxide and, 1,320,166
—, isoprene vulcanized with, 1,320,166
—, kaolin as emulsifier of, 1,440,356
—, lacquer made with, 1,217,115; 1,245,981; 1,245,982
—, leather, artificial, made with, 1,173,336; 1,245,977
—, linoleic acid, compound of and, 1,475,477
—, linoleum substitute made with, 1,245,978; 1,245,984
—, magnesium anilide made with, 1,394,851
—, magenta from, 1,355,048
—, mfr. of, 1,447,557
—, —, alloy heating bath for, 1,213,143
—, —, antimony for, 1,239,822
—, —, apparatus for, 1,124,776; 1,213,143; 1,239,822
—, —, arsenic for, 1,239,822
—, —, asbestos for, 1,124,776
—, —, bismuth for, 1,239,822
—, —, calcium hydroxide for, 1,239,822
—, —, carbon cathode for, 1,239,822
—, —, carbon monoxide for, 1,237,828
—, —, catalyst for, 1,271,013; 1,451,489
—, —, —, cobalt as, 1,456,969
—, —, —, copper as, 1,456,969
—, —, —, iridium as, 1,456,969
—, —, —, iron as, 1,456,969
—, —, —, mfr of, alkali compound for, 1,207,802
—, —, —, —, aluminum oxide for, 1,207,802
—, —, —, —, ammonium carbonate for, 1,207,802
—, —, —, —, asbestos for, 1,207,802
—, —, —, —, carbon monoxide for, 1,207,802
—, —, —, —, cobalt for, 1,207,802
—, —, —, —, copper for, 1,207,802
—, —, —, —, copper carbonate for, 1,207,802
—, —, —, —, copper(ic) carbonate for, 1,237,828
—, —, —, —, copper formate for, 1,207,802
—, —, —, —, copper nitrate for, 1,207,802
—, —, —, —, copper oxalate for, 1,207,802
—, —, —, —, copper pyrogenetic for, 1,207,802
—, —, —, —, copper salts for, 1,207,802
—, —, —, —, hydrogen for, 1,207,802
—, —, —, —, iron for 1,207,802
—, —, —, —, iron carbonate for, 1,207,802
—, —, —, —, iron oxide for, 1,207,802
—, —, —, —, iron salt for, 1,207,802
Aniline, mfr. of, catalyst for, mfr. of, kieselguhr for, 1,207,802
—, —, —, —, magnesia for, 1,207,802
—, —, —, —, magnesium oxide for, 1,207,802
—, —, —, —, metal oxide for, 1,207,802
—, —, —, —, nickel for, 1,207,802
—, —, —, —, platinum for, 1,207,802
—, —, —, —, process for, 1,207,802; 1,237,828
—, —, —, —, pumice for, 1,207,802; 1,237,828
—, —, —, —, silver oxide for, 1,207,802
—, —, —, —, silver salt for, 1,207,802
—, —, —, —, sodium silicate for, 1,207,802; 1,237,828
—, —, —, —, water gas for, 1,207,802
—, —, —, —, water glass for, 1,207,802
—, —, —, —, zinc carbonate for, 1,207,802; 1,237,828
—, —, —, —, zinc oxide for, 1,207,802
—, —, —, —, zinc salt for, 1,207,802
—, —, —, nickel as, 1,456,969
—, —, —, osmium as, 1,456,969
—, —, —, platinum as, 1,456,969
—, —, —, tin as, 1,456,969
—, —, —, tin oxide as, 1,456,969
—, —, chromium cathode for, 1,239,822
—, —, chromium salt for, 1,239,822
—, —, copper for, 1,124,776; 1,239,822
—, —, copper cathode for, 1,239,822
—, —, copper salt for, 1,239,822
—, —, copper sulfate for, 1,239,822
—, —, Dowson gas for, 1,237,828
—, —, electrolytic process for, 1,239,822
—, —, hydrazo-benzene for, 1,134,093
—, —, hydrogen for, 1,124,776; 1,207,802; 1,237,828
—, —, iron for, 1,124,776
—, —, iron oxide, Fe_3O_4, for, 1,124,776
—, —, iron(ic) oxide for, 1,124,776
—, —, iron reductor sludge from, iron oxide from, 1,428,521
—, —, iron salt for, 1,239,822
—, —, lead cathode for, 1,239,822
—, —, lead heating bath for, 1,213,143
—, —, lead salt for, 1,239,822
—, —, mercury for, 1,239,822
—, —, mercury salt for, 1,239,822
—, —, nickel for, 1,124,776; 1,239,822
—, —, nickel cathode for, 1,239,822
—, —, nitrobenzene for, 1,134,093; 1,207,802; 1,237,828; 1,239,822; 1,271,013; 1,451,489
—, —, nitrobenzene and catalysts for, 1,391,666
—, —, phenylhydroxylamine for, 1,134,093
—, —, platinum for, 1,124,776
—, —, platinum cathode for, 1,239,822
—, —, process for, 1,124,776; 1,134,093; 1,207,802; 1,213,143; 1,237,828; 1,239,822; 1,484,258
—, —, reductor sludge from, iron oxide obtained from, 1,455,060
—, —, silver cathode for, 1,239,822
—, —, sodium nitrite heating bath for, 1,213,143
—, —, sulfuric acid for, 1,239,822
—, —, tin for, 1,239,822
—, —, tin cathode for, 1,239,822
—, —, tin heating bath for, 1,213,143
—, —, water for, 1,237,828

Aniline, mfr. of, water gas for, 1,124,776; 1,207,802; 1,237,828
—, —, *see also Nitrobenzene, reduction of*
—, marshmallow as emulsifier of, 1,440,356
—, mending composition made with, 1,389,084
—, mercury compounds soluble in, 1,457,675
—, metal hydroxides precipitated by, 1,337,192
—, methylaniline made with, 1,426,380
—, *N*-methyl-aniline made with, 1,221,077; 1,429,714
—, methylating, 1,429,714
—, *N.N'*-methylenebis-aniline made with, 1,223,745
—, molded article made with, 1,514,508
—, molybdenum filament, made with, 1,208,629
—, Montan extracted with, 1,437,775
—, motor fuel contg., 1,384,946
—, naphthazarin, condensation product of and, 1,202,821
—, *b*-naphthoquinone-dianilide made with, 1,460,774
—, 2-(1'-naphthyl)-cinchoninic acid made with, 1,197,462; Re-14,216
—, 2-(2'-naphthyl)-cinchoninic acid made with, 1,197,462; Re-14,216
—, nitrobenzene reduced to, 1,358,324; 1,447,557
—, nitro-compounds of, phenol aldehyde condensate made with, 1,143,714
—, nitro-starch stabilizer, 1,510,348
—, nonylaldehyde, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, *nonaldehyde condensate of, see Nonaldehyde aniline*
—, octinebromarsenoxide(?) made with, 1,201,692
—, octylaldehyde, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, *octylaldehyde condensate of, see Octylaldehyde aniline*
—, oil, compound of and, 1,475,477
—, oleic acid, compound of and, 1,277,708; 1,475,477
—, —, —, mfr. of, alcohol for, 1,475,477
—, —, —, —, hydrochloric acid for, 1,475,477
—, —, —, —, process for, 1,475,477
—, —, —, —, potassium hydroxide for, 1,475,477
—, —, —, —, sodium chloride for, 1,475,477
—, —, —, —, sodium hydroxide for, 1,475,477
—, organic materials fused with alkalis in, 1,430,277
—, oxidation of, apparatus for, 1,464,845
—, paint made with, 1,145,186; 1,200,731; 1,217,115
Aniline, paint, anti-fouling, made with, 1,145,186
—, paint remover made with, 1,189,803; 1,189,804; 1,499,101
—, palmitic acid, action of and, 1,277,708
—, —, compound of and, 1,475,477
—, paper, safety, made with, 1,172,414
—, paper preserved by, 1,448,276
—, partial oxidation of, apparatus for, 1,515,299
—, —, process for, 1,515,299
—, pectins as emulsifier of, 1,440,356
—, phenol aldehyde condensate made with, 1,146,300; 1,187,232; 1,188,439; 1,200,731; 1,217,115; 1,228,428
—, phenol aldehyde condensate, composition of contg., 1,259,472; 1,259,473
—, —, compound of and, properties of, 1,133,083
—, phenol aldehyde condensate softened by, 1,410,899
—, phenol aldehyde condensate solvent (solid), 1,259,472; 1,259,473
—, phenylglycine made with, 1,467,598
—, *N*-phenyl-glycine made with, 1,419,720
—, phenylglycine bodies prepared with, 1,419,720
—, phenylglycine prepared with, 1,442,743
—, phenylglycine salt of, preparing, 1,419,720
—, *N*-phenyl-phthalimide made with, 1,450,678
—, phenyl-stibnic acid made with, 1,260,707
—, phenyl-stibnic acid, sodium salt of, made with, 1,260,707
—, phenyl-stibnic oxychloride made with, 1,260,707
—, phthalimides made with, 1,450,678
—, pipe mending composition made with, 1,389,084
—, plastic made with, 1,173,336; 1,245,981; 1,245,984; 1,389,084; 1,468,608; 1,468,609
—, polish made with, 1,475,477
—, polish, shoe, made with, 1,475,477
—, polyheptylidene, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, *polyheptylidine condensate of, see Polyheptylidine aniline*
—, polysaccharide as emulsifier of, 1,440,356
—, printer roller made with, 1,223,745
—, printing paste made with, 1,157,705
—, printing press roller made with, 1,345,200
—, propionaldehyde, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber, substitute, vulcanization of using, 1,417,970
—, *propionaldehyde condensate of, see Propionaldehyde aniline*

Aniline, propionaldehyde condensation product of and, 1,467,984
—, protecting monetary documents by a mixture of aniline and, 1,353,720
—, proteid product made with, 1,245,981
—, proteins as emulsifier of, 1,440,356
—, resin, artificial, made with, 1,435,801
—, resins as emulsifier of, 1,440,356
—, roller, inking, made with, 1,345,200
—, rubber, African, imitation, made with, 1,242,886
—, —, aging of prevented with, 1,320,166
—, —, artificial, aging of prevented with, 1,320,166
—, —, —, vulcanization accelerator of metal oxide and, 1,320,166
—, —, —, vulcanized with, 1,320,166
—, —, Guayule, imitation, made with, 1,242,886
—, —, reclaiming of using, 1,124,920; 1,189,721; 1,235,850; 1,243,623
—, —, synthetic, made with, 1,238,930; 1,248,888
—, —, —, aging of prevented with, 1,320,166
—, —, —, vulcanization accelerator of metal oxide and, 1,320,166
—, —, —, vulcanized with, 1,320,166
—, —, vulcanization acelerator for, made with, 1,371,662; 1,467,984; 1,477,805
—, —, vulcanization of with, 1,280,940
—, rubber article preserved using, 1,422,115
—, rubber compound made with, 1,242,886
—, rubber mending composition made with, 1,389,084
—, rubber preserved with, 1,410,699; 1,422,115
—, rubber preserving composition contg., 1,422,115
—, rubber reclaimed with, 1,324,093
—, rubber softened with, 1,427,283
—, rubber solvent, 1,377,152
—, rubber substitute made with, 1,159,257; 1,159,258; 1,245,979; 1,245,984
—, rubber substitute, vulcanization accelerator for, made with, 1,467,984
—, rubber vulcanization accelerator, 1,126,469
—, rubber vulcanization accelerator of metal oxide and, 1,320,166
—, rubber vulcanized with, 1,320,166; 1,463,794
—, rubber vulcanizing accelerator, 1,427,754
—, rust-proofing made with, 1,145,186
—, separation from phenyl glycine, 1,442,743
—, silk, artificial, made with, 1,217,028
—, soap as emulsifier of, 1,440,356
—, sodium hyposulfite, anhydrous, made with, 1,156,107; 1,207,782
—, solvent for, benzene as, 1,303,624
—, —, carbon bisulfide as, 1,391,796
—, —, carbon tetrachloride as, 1,303,624
—, —, ether as, 1,303,624
—, —, solvent naphtha as, 1,303,624
—, —, toluene as, 1,303,624; 1,466,535
—, —, xylene as, 1,303,624
—, solvents recovered with, 1,355,402
—, starch as emulsifier of, 1,440,356
—, starch ethers solvent, 1,350,820
—, starch paste and, dyestuff made with, 1,333,807
—, stearaldehyde, compound of and, balata, vulcanization of using, 1,417,970
Aniline, stearaldehyde, compound of and, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, stearic acid, action of and, 1,277,708
—, —, compound of and, 1,475,477
—, —, methyl alcohol, compound of and, mfr. of, process for, 1,475,477
—, *stearic aldehyde condensate of, see Stearic aldehyde aniline*
—, *o*-sulfamido-benzoyl-anilide made with, 1,153,121
—, *N*-sulfatoethyl-aniline made with, 1,483,084
—, sulfonation of, 1,441,655
—, sulfur-phenol resin prepared with, 1,435,801
—, tannic acid as emulsifier of, 1,440,356
—, tannins as emusifier of, 1,440,356
—, teeth, artificial, mending composition for, made with, 1,389,084
—, textile preserved by, 1,448,276
—, thermoplastic made with, 1,134,527
—, thiocarbanilide made with, 1,406,719; 1,422,506; 1,477,803; 1,477,804; 1,482,317; 1,490,073
—, thio-carbanilide, derivatives of, made with, 1,477,803; 1,477,804
—, thiourea made with, 1,415,899
—, tile made with, 1,245,984
—, tires retreaded by acid of, 1,409,418
—, *p-p'*-tolyldibromindigo, reaction with, 1,412,038
—, tragacanth as emulsifier of, 1,440,356
—, trichlorethylene and, phenylglycine made with, 1,467,598
—, trinitrotoluene stabilized with carbon bisulfide solution of, 1,391,796
—, triphenyl-guanidine made with, 1,466,535; 1,490,073
—, tungsten filament made with, 1,208,629
—, tungsten hexachloride solvent, 1,208,629
—, varnish made with, 1,159,257; 1,159,258; 1,188,439; 1,200,731; 1,217,115; 1,436,820
—, varnish remover made with, 1,189,803; 1,189,804; 1,499,101
—, valeraldehyde, compound of and, balata, vulcanization of using, 1,417,970
—, —, —, gutta percha, vulcanization of using, 1,417,970
—, —, —, mfr. of, process for, 1,417,970
—, —, —, rubber, vulcanization of using, 1,417,970
—, —, —, rubber substitute, vulcanization of using, 1,417,970
—, *valeraldehyde condensate of, see Valeraldehyde aniline*
—, viscose made with, 1,173,336
—, vulcanization process using, 1,249,180
—, vulcanizing accelerator, 1,440,961; 1,463,794
—, vulcanizing accelerator made with, 1,371,662; 1,371,663; 1,406,719; 1,417,970; 1,418,772; 1,490,073; 1,510,074
—, —, carbon bisulfide and derivatives of, 1,356,495
—, waterproofing made with, 1,389,084

Aniline, whale oil, rancid, compound of and, 1,475,477
—, wood preserved by, 1,448,276
—, wood work mending composition made with, 1,389,084
—, *see also Phenylamine; Amidobenzene*
Aniline-acetaldehyde condensate, aluminum chloride combined with, 1,444,865
—, calcium acetate combined with, 1,444,865
—, cobalt chloride combined with, 1,444,865
—, lead acetate combined with, 1,444,865
—, magnesium acetate combined with, 1,444,865
—, oleic acid combined with, 1,444,865
—, palmitic acid combined with, 1,444,865
—, preparing of, 1,444,865
—, sodium acetate combined with, 1,444,865
—, stearic acid combined with, 1,444,865
—, vulcanizing accelerator of oleic acid and, 1,444,865
—, vulcanizing accelerator of palmitic acid and, 1,444,865
—, vulcanizing accelerator of stearic acid and, 1,444,865
—, zinc acetate combined with, 1,444,865
—, zinc chloride combined with, 1,444,865
—, zinc hydroxide combined with, 1,444,865
Aniline acetate, cellulose ether solvent contg., 1,494,469
—, ethyl cellulose plasticizer, 1,460,097
—, ethyl cellulose solvent contg., 1,494,469
—, film contg., 1,460,097
—, film made with, 1,494,469
Aniline acid red, soap dye made with, 1,274,048; 1,274,049
Aniline arsenate, aniline black dyeing with, 1,329,117
1-Aniline-benzothiazole, mfr. of, aniline for, 1,490,073
—, —, carbon bisulfide for, 1,490,073
—, —, process for, 1,490,073
—, vulcanization accelerator contg., 1,490,073
Aniline bisulfate, cellulose acetate made with, 1,280,974
Aniline black, aging, electrical process of, 1,333,700
—, cellulose acetate dyed with, 1,448,432; 1,517,709
—, cotton, dyeing of using, 1,157,908
—, —, fabric contg., dyeing of using, 1,517,709
—, dyeing with, 1,329,117; 1,374,122
—, —, aniline arsenate for, 1,329,117
—, —, aniline borate for, 1,329,117
—, —, aniline hydrochloride for, 1,329,117
—, —, aniline metaphosphate for, 1,329,117
—, —, aniline nitrate for, 1,329,117
—, —, aniline oil for, 1,329,117
—, —, aniline phosphate for, 1,329,117
—, —, aniline pyrophosphate for, 1,329,117
—, —, borax for, 1,329,117
—, —, boric acid for, 1,329,117
—, —, dragon's blood for, 1,329,117
—, —, formulas for, 1,277,056; Re-14,824
—, —, metaphosphoric acid for, 1,329,117
—, —, *p*-phenylenediamine for, 1,329,117
—, —, potassium chlorate for, 1,329,117
—, —, potassium ferrocyanide for, 1,329,117
—, —, process for, 1,329,117
Aniline black, cotton, sodium chlorate for, 1,329,117
—, —, sodium ferrocyanide for, 1,329,117
—, —, starch for, 1,329,117
—, —, vanadium salts for, 1,329,117
—, dyeing process using, 1,333,700
—, fabrics dyed with, 1,374,122
—, ink, stamping, made with, 1,421,728
—, linen, fabric contg., dyeing of using, 1,517,709
—, mfr. of, 1,421,728
—, —, alkali chlorate for, 1,277,056; Re-14,824; 1,350,600
—, —, amines for, 1,350,600
—, —, amines, primary, for, 1,277,056; Re-14,824
—, —, *p*-amino-phenol for, 1,350,600; 1,449,067
—, —, *p*-aminophenol chloride for, 1,449,067
—, —, *p*-aminophenol chloride as oxidizer for, 1,449,067
—, —, ammonium chloride for, 1,157,908
—, —, ammonium vanadate for, 1,350,600
—, —, aniline for, 1,277,056; Re-14,824; 1,350,600
—, —, aniline chloride for, 1,449,067
—, —, aniline chloride as oxidizer for, 1,449,067
—, —, aniline hydrochloride for, 1,157,908
—, —, aniline salt for, 1,157,908; 1,277,056; Re-14,824
—, —, benzene for, 1,350,600
—, —, benzidine for, 1,277,056; Re-14,824; 1,350,600
—, —, boric acid for, 1,277,056; Re-14,824; 1,350,600
—, —, British gum for, 1,277,056; Re-14,824
—, —, chlor-aniline for, 1,277,056; Re-14,824
—, —, *o*-chlor-aniline for, 1,277,056; Re-14,824
—, —, chromate for, 1,350,600
—, —, copper chloride for, 1,277,056; Re-14,824; 1,350,600
—, —, copper salt for, 1,277,056; Re-14,824; 1,350,600
—, —, copper sulfate for, 1,157,908; 1,277,056; Re-14,824
—, —, copper sulfide for, 1,277,056; Re-14,824
—, —, dianisidine for, 1,277,056; Re-14,824; 1,350,600
—, —, diphenylamine for, 1,350,600
—, —, Dragon's blood mucilage for, 1,277,056; Re-14,824; 1,350,600
—, —, fiber, formulas for, 1,350,600
—, —, formic acid for, 1,277,056; Re-14,824; 1,350,600
—, —, glycerol for, 1,157,908
—, —, gum for, 1,157,908
—, —, hydrochloric acid for, 1,277,056; Re-14,824; 1,350,600
—, —, lactic acid for, 1,277,056; Re-14,824
—, —, metaphosphoric acid for, 1,277,056; Re-14,824; 1,350,600
—, —, nitric acid for, 1,277,056; Re-14,824; 1,350,600
—, —, *p*-phenylenediamine for, 1,277,056; Re-14,824; 1,350,600; 1,449,067
—, —, *p*-phenylenediamine as oxidizer in, 1,449,067
—, —, *p*-phenylenediamine chloride for, 1,449,067

Aniline black, mfr. of, *p*-phenylenediamine chloride as oxidizer for, 1,449,067
—, —, phosphoric acid for, 1,350,600
—, —, process for, 1,157,908; 1,277,056; 1,350,600
—, —, sodium chlorate for, 1,157,908; 1,277,056; Re-14,824; 1,350,600
—, —, starch for, 1,277,056; Re-14,824; 1,350,600
—, —, toluidine for, 1,277,056; Re-14,824
—, —, vanadium chloride for, 1,350,600
—, —, vanadium salt for, 1,277,056; Re-14,824; 1,350,600
—, silk, artificial, cellulose acetate, dyeing of using, 1,517,709
—, —, —, —, fabric contg., dyeing of using, 1,517,709
—, —, dyeing of using, 1,157,908
—, solvent for, acetin as, 1,421,728
—, —, alcohol as, 1,421,728
—, stamping ink contg., 1,421,728
—, wool, dyeing of using, 1,157,908
—, —, fabric contg., dyeing of using, 1,517,709
—, *see also Dyestuff; Nigrosine*
Aniline black dye, soap, dye made with, 1,139,326
Aniline blue, lake prepared from, 1,431,081
—, picture, latent color, made using, 1,507,358
Aniline blue lake, photograph, colored, made with, 1,248,139
Aniline borate, aniline black dyeing with, 1,329,117
Aniline-*m*-borate, aniline black dyeing with, 1,329,117
Aniline brown, cedar substitute made with, 1,283,421; 1,283,422; 1,382,420
—, cigar box made with, 1,283,420; 1,283,421; 1,283,422
—, paper made with, 1,283,422
—, paper-board made with, 1,283,422
—, tobacco receptacle made with, 1,283,420; 1,283,421; 1,283,422
Aniline chloride, see Aniline hydrochloride
Aniline color, see Dyestuff
Aniline dinitro-phenolate, basilite contg., 1,500,066
Aniline-2.4-disulfonic acid, dye made with, 1,319,852
Aniline-2.5-disulfonic acid, dye made with, 1,319,852
—, *see 2-Amino-p-benzenedisulfonic acid*
Aniline dyes, carbon paper ink contg., 1,328,188
—, ink contg., 1,422,957
—, marble stained with, 1,293,832
—, typewriter ribbon ink contg., 1,328,188
—, *see also Dyes; Dyestuff*
Aniline-ethyl-omega-sulfonic acid, see Aniline-methyl-methanesulfonic acid
Aniline factis, rubber substitute made with, 1,159,258
—, varnish made with, 1,159,258
Aniline formaldehyde condensate, see Anhydroformaldehyde aniline
Aniline green, cleaner contg., 1,473,620
Aniline hydrobromide, catalyst, diphenylamine made with, 1,314,538
Aniline hydrochloride, aniline black made with, 1,157,908; 1,449,067
—, aniline black dyeing with, 1,329,117
—, anilinogallocyanine made with, 1,268,455
—, battery, dry, made with, 1,357,160
—, —, primary, made with, 1,357,160
—, catalyst, artificial resin formed with, 1,448,556
—, cotton, dyeing of, using, 1,213,045
—, diphenylamine made with, 1,212,928
—, dry battery contg., 1,357,160
—, dyestuff made with, 1,065,405; Re-13,969; 1,243,170; 1,268,455
—, formation of, 1,437,783; 1,442,743
—, ink made with, 1,449,067
—, insulation, electric, made with, 1,159,257; 1,448,556
—, mfr. of, aniline for, 1,303,624; 1,309,580
—, —, dinitrochlorbenzene for, 1,309,580
—, —, hydrochloric acid for, 1,303,624
—, —; process for, 1,303,624; 1,309,580
—, —, water for, 1,309,580
—, molded article made with, 1,448,556
—, paper, safety, made with, 1,172,414
—, phenol ketone condensate made with, 1,448,556
—, resin, artificial, made with, 1,448,556
—, rubber substitute made with, 1,159,257; 1,159,258
—, solubility of in carbon tetrachloride, 1,303,624
—, solubility of in solvent naptha, 1,303,624
—, solubility of in xylene, 1,303,624
—, solvent for, benzene as, 1,303,624
—, —, ether as, 1,303,624
—, —, toluene as, 1,303,624
—, varnish made with, 1,159,257; 1,159,258
—, zinc hydroxide, action of on, 1,357,160
Aniline hydrogen iodide, catalyst, diphenylamine made with, 1,308,356
Aniline hydroiodide, catalyst in diphenylamine mfr., 1,392,942
—, diphenylamine made with, 1,392,942
1-Aniline-2-methyl-anthraquinone, dyestuff made with, 1,133,081
Aniline-methyl-omega-sulfonicacid, see Anilino-menthanesulfonic acid
Aniline nitrate, aniline black dyeing with, 1,329,117
Aniline oil, see Aniline; Coal tar oil
Aniline perchlorate, explosive contg., 1,457,709
—, preparation of, 1,457,709
Aniline-*m*-phosphate, aniline black dyeing with, 1,329,117
Aniline-*o*-phosphate, aniline black dyeing with, 1,329,117
Aniline phosphate, rust preventing paint contg., 1,428,086
—, rustproofing using, 1,428,086; 1,428,087
—, steel prevented from rusting by, 1,428,087
Aniline potassium, mfr. of, aniline for, 1,235,850
—, —, potassium for, 1,235,850
—, —, process for, 1,235,850
—, rubber, reclaiming of using, 1,235,850
Aniline pyrophosphate, aniline black dyeing with, 1,329,117

Aniline red, alkali-proofing, 1,349,265
—, lake prepared from, 1,431,081
—, picture, latent color, made using, 1,507,358
—, *see also Fuchsine; Magenta; Cerise; Grenadin; Marron; Camelia; Amaranth; Canelle; Russian Red; Scarlet Cardinal*
Aniline salt, aniline black made with, 1,157,908; 1,277,056; Re-14,824
—, catalyst in cellulose acetate mfr., 1,445,382
—, cellulose acetate made with, 1,445,382
—, dyestuff made with, 1,277,056; Re-14,824
—, paper, safety, made with, 1,172,414
—, *see also Aniline hydrochloride*
Aniline-sodium, mfr. of aniline for, 1,235,850
—, —, process for, 1,235,850
—, —, sodium for, 1,235,850
—, rubber, reclaiming of using, 1,235,850
Aniline sulfate, electrodeposition of using, 1,476,374
—, —, reclaiming of using, 1,189,721
—, rubber vulcanization accelerator, 1,476,374
Aniline sulfonic acid, dye made with, 1,314,922; 1,314,925
Aniline-*o*-sulfonic acid, preparation of, 1,441,655
Aniline-2-sulfonic acid, see 2-Amino-benzene-sulfonic acid
Aniline-4-sulfonic acid, see 4-Amino-benzene-sulfonic acid
o-Aniline-sulfonic acid, see o-Amino-benzene-sulfonic acid
Aniline-3-sulfonic acid, see Metanilic acid
m-Aniline-sulfonic acid, see Metanilic acid
Aniline-4-sulfonic acid, see Sulfanilic acid
p-Aniline-sulfonic acid, see Sulfanilic acid
o-Aniline thiosulfonic acid, see o-Amino-benzenethiosulfonic acid
Aniline yellow, lake prepared from, 1,431,081
—, picture, latent color, made with, 1,507,358
—, vulcanization accelerator, 1,229,724
—, *see also Amino-azo-benzene(p)*
Anilino acetic acid, see Phenyl-glycine; N-Phenyl-glycine
b-Anilinoanthraquinone, dyestuff made with, 1,280,648
1-Anilino-anthraquinone, 1.4-dianilino-anthraquinone made with, 1,394,851
2-Anilino-anthraquinone, mfr. of, air for, 1,238,932
—, —, alcohol for, 1,238,932
—, —, aniline for, 1,238,932
—, —, anthraquinone-2-sulfonic acid for, 1,238,932
—, —, chlor-benzene for, 1,238,932
—, —, hydrochloric acid for, 1,238,932
—, —, potassium alcoholate for, 1,238,932
—, —, potassium chlorate for, 1,238,932
—, —, potassium hydroxide for, 1,238,932
—, —, process for, 1,238,932
—, —, sodium alcoholate for, 1,238,932
—, —, sodium anthraquinone-2-sulfonate for, 1,238,932
—, —, sodium hydroxide for, 1,238,932
Anilino-bis-ethanol, *N.N*-disulfatoethyl-aniline made with, 1,483,084
—, dyestuff made with, 1,483,084
Anilino-bis-propanol, dyestuff made with, 1,483,084
2-Anilino-7-chlor-anthraquinone, mfr. of, aniline for, 1,238,932
—, —, 7-chlor-anthraquinone-2-sulfonic acid for, 1,238,932
—, —, process for, 1,238,932
Anilino-ethanol, *N*-sulfatoethylaniline made with, 1,483,084
2-Anilino-ethanol, dyestuff made with, 1,504,060
2-Anilino-ethylalcohol, dyestuff made with, 1,140,745
Anilinogallocyanine, mfr of, ammonium persulfate for, 1,268,455
—, —, aniline for, 1,268,455
—, —, aniline hydrochloride for, 1,268,455
—, —, gallocyanine hydrochloride for, 1,268,455
—, —, hydrogen dioxide for, 1,268,455
—, —, process for, 1,268,455
—, —, sodium perborate for, 1,268,455
Anilino-methanesulfonic acid, cellulose acetate, dyestuff for, made with, 1,483,797
—, compound, $C_{13}H_{11}O_6N_4SNa$, made with, 1,483,797
—, dyestuff made with, 1,483,797
—, mfr. of, aniline for, 1,483,798
—, —, formaldehyde for, 1,483,798
—, —, process for, 1,483,798
—, —, sodium bisulfite for, 1,483,798
—, sodium salt of, cellulose acetate, dyestuff for, made with, 1,483,798
—, —, dyestuff made with, 1,483,798
Anilino-methyl-methanesulfonic acid, cellulose acetate, dyestuff for, 1,483,797
—, compound, $C_{14}H_{13}O_5N_4SNa$, made with, 1,483,797
—, dyestuff made with, 1,483,797
1-Anilino-naphthalene-8-sulfonic acid, dyestuff made with, 1,188,421
1-Anilino-2-naphthol, mfr. of, aniline for, 1,460,774
—, —, 1-brom-2-naphthol, for, 1,460,774
—, —, copper for, 1,460,774
—, —, 1-halogen-2-naphthol for, 1,460,774
—, —, iron for, 1,460,774
—, —, lead for, 1,460,774
—, —, process for, 1,460,774
—, —, sodium hydroxide for, 1,460,774
—, —, tin for, 1,460,774
—, —, zinc for, 1,460,774
2-Anilino-naphthalene-6-sulfonic acid, dyestuff made with, 1,518,847
3-Anilino-1-naphthol, mfr. of, aniline for, 1,460,774
—, —, 1.3-naphthalenediol for, 1,460,774
—, —, process for, 1,460,774
4-Anilino-1-naphthol, mfr. of, process for, 1,460,774
—, —, 4-amino-1-naphthol for, 1,460,774
—, —, aniline for, 1,460,774
—, —, process for, 1,460,774
6-Anilino-1-naphthol-3-sulfonic acid, dyestuff made with, 1,216,760; 1,245,694; 1,265,031; 1,292,385; 1,498,316
—, —, copper compound of, properties of, 1,292,385

7-Anilino-1-naphthol-3-sulfonic acid, dyestuff made with, 1,359,969
7-Anilino-2-naphthol, mfr. of, aniline for, 1,460,774
—, —, calcium chloride for, 1,460,774
—, —, 2.7-naphthalenediol for, 1,460,774
—, —, process for, 1,460,774
Anilino-oxalic acid, see Oxanilic acid
Anium, see Anime
Animals, destroying of, apparatus for, 1,400,598
—, —, arsenic for, 1,400,598
—, —, carbon bisulfide for, 1,400,598
—, —, carbon dioxide for, 1,400,598
—, —, carbon monoxide for, 1,400,598
—, —, charcoal for, 1,400,598
—, —, process for, 1,400,598
—, —, sulfur for, 1,400,598
—, disinfectant for, mfr. of, cotton for, 1,263,527
—, —, —, hair for, 1,263,527
—, —, —, lint for, 1,263,527
—, —, —, naphthalene for, 1,263,527
—, —, —, process for, 1,263,527
—, —, —, talc for, 1,263,527
—, —, —, wool for, 1,263,527
—, exterminating, arsine, phosphine or stibine for, 1,338,279
—, —, gases for, 1,403,461
—, —, noxious gas producing apparatus for, 1,400,598
—, food for, analyses of, 1,395,746
—, —, mfr. of, 1,395,746
—, pituitary gland, anterior lobe of, growth-control substance made with, 1,218,472
—, —, —, pituitary gland product made with, 1,218,472
—, preserving of, alcohol for, 1,163,645
—, —, chloroform for, 1,163,645
—, —, *colophonium citricum* for, 1,163,645
—, —, fat for, 1,163,645
—, —, hydrocarbon for, 1,163,645
—, —, mercury(ic) chloride for, 1,163,645
—, —, paraffin for, 1,163,645
—, —, process for, 1,163,645
—, —, resin for, 1,163,645
—, —, wax for, 1,163,645
—, —, xylene for, 1,163,645
—, *salt brick, medicated for, see Salt brick, medicated*
—, toy, mfr. of, canvas for, 1,149,170
—, —, —, process for, 1,149,170
—, —, —, rope for, 1,149,170
—, —, —, rubber for, 1,149,170
—, —, —, saccharine for, 1,149,170
—, —, —, strychnine for, 1,149,170
—, —, —, sulfur for, 1,149,170
Animal bait, mfr. of, anise oil for, 1,366,509
—, —, beeswax for, 1,366,509
—, —, castor extract for, 1,366,509
—, —, fish oil for, 1,366,509
—, —, process for, 1,366,509
—, —, rhodium oil for, 1,366,509
—, —, vaseline for, 1,366,509
Animal bile, film, motion picture, made with, 1,361,783
Animal black, hydrogenation, catalyst for, made with, 1,174,245
—, catalyst, hydrogenation, made with, 1,174,245
Animal black, catalyst support for hydrogenation, 1,300,144
—, fish oil, hydrogenation of, catalyst for, made with, 1,174,245
—, hydrogenation with, 1,300,144
—, hydrogenation, catalyst for, made with 1,174,245
Animal bladder diaphragm, gelatin purified using, 1,235,064
—, glue purified using, 1,235,064
—, glutin made with, 1,235,064
Animal blood, see Blood
Animal casing, shrinking of, process for, 1,476,204
Animal char, oils purified with, 1,404,374; 1,404,375
—, petroleum decolorized using, 1,404,374; 1,404,375
—, sludge sulfonic acid purified using, 1,495,891
Animal charcoal, see Charcoal, animal
Animalcule, destroying, pressure for, 1,355,476
Animal diaphragm, sugar fractionated using, 1,235,063
Animal dip, mfr. of, alcohol, denatured, for, 1,509,166
—, —, alkali arsenite for, 1,137,844
—, —, alkali carbonate for, 1,137,844
—, —, alkali hydroxide for, 1,137,844
—, —, ammonium hydroxide for, 1,509,166
—, —, arsenous oxide for, 1,137,844
—, —, kerosene for, 1,509,166
—, —, oleic acid, crude, for, 1,509,166
—, —, petroleum for, 1,509,166
—, —, pine tar for 1,137,844
—, —, process for, 1,137,844; 1,509,166
—, —, soap, laundry, for, 1,509,166
—, —, sodium carbonate for, 1,137,844
—, —, sodium hydroxide for, 1,137,844
Animal feed, see Animal food
Animal fiber, leather, artificial, made with, 1,276,113
—, treating, chlorine and sodium hydroxide for, 1,389,274; 1,389,275
—, *see also Fiber, animal; Wool*
Animal food, bagasse in, 1,286,742
—, capsicum in, 1,286,742
—, cotton seed meal in, 1,286,742
—, mfr. of, apparatus for, 1,141,079
—, —, bananas for, 1,188,678
—, —, banana skin for, 1,188,678
—, —, barley for, 1,188,678
—, —, bastard cedar seed for, 1,188,678
—, —, bean vine for, 1,141,079
—, —, cellulose, sulfite, by-product, for, 1,153,834
—, —, cellulose sulfite liquor for, 1,153,834
—, —, corn for, 1,188,678
—, —, hay for, 1,188,678
—, —, oats for, 1,188,678
—, —, oatmeal waste and molasses for, 1,432,295
—, —, process for, 1,141,079; 1,153,834; 1,188,678; 1,498,800
—, —, rice for, 1,188,678
—, molasses, sugar beet in, 1,286,742
—, —, sugar cane in, 1,286,742
—, —, sodium chloride in, 1,286,742
—, *see also Food, animal*
Animal gland, food product made with, 1,138,602

Animal glue, see Glue, animal
Animal gut, substitute for, see Sausage casing, mfr. of
Animal instestine, musical instrument string, made with, 1,518,328
—, surgical suture made with, 1,518,328
—, tennis racket string made with, 1,518,328
Animal ligament, gelatin made from, 1,289,053
—, glue made with, 1,289,053
—, size made with, 1,289,053
Animal material, vitamin made from, 1,235,198
Animal matter, ammonia made from, 1,330,435
—, carbon, absorptive, made from, 1,442,372
—, fertilizer made from, 1,218,678
—, sterilization of, air for, 1,250,079
—, —, alcohols for, 1,250,079
—, —, benzoic acid for, 1,250,079
—, —, boric acid for, 1,250,079
—, —, carbon dioxide for, 1,250,079
—, —, carbon monoxide for, 1,250,079
—, —, gas for, 1,250,079
—, —, hydrocarbon for, 1,250,079
—, —, hydrogen for, 1,250,079
—, —, hydrogen dioxide for, 1,250,079
—, —, nitrogen for, 1,250,079
—, —, nitrogen protoxide for, 1,250,079
—, —, oxygen for, 1,250,079
—, —, process for, 1,250,079
—, —, sugars for, 1,250,079
Animal membrane, gold beaters' skin made with, 1,235,947
—, meat container made with, 1,235,947
—, sausage casing made with, 1,235,947
Animal oil, see Oil, animal; Bone oil
Animal organs, food product made with, 1,138,602
Animal pancreas, diabetes, compound for treatment of made with, 1,520,673
Animal preservative, oil of garlic as, 1,292,401
Animal products, medicant for hypodermic injection, mfr. of, camphor for, 1,510,259
—, —, —, fat, vegetable, for, 1,510,259
—, —, —, glycerol for, 1,510,259
—, —, —, phenol for, 1,510,259
—, —, —, process for, 1,510,259
—, medicinal compound made with, 1,510,259
Animal refuse, carbon, decolorizing, made with, 1,195,720
Animal sinew, sausage skin made of, 1,157,556
—, tennis racket string made with, 1,231,911
Animal size, see Size, animal
Animal skin, gelatin made with, 1,289,053
—, glue made with, 1,289,053
—, size made with, 1,289,053
—, wig made with, 1,490,466
Animal stomach contents, cattle feed made from, 1,228,175
Animal tankage, fertilizer contg., 1,261,025
—, fertilizer made with, 1,135,639
Animal tendon, gelatin made with, 1,289,053
—, glue made with, 1,289,053
—, size made with, 1,289,053
—, tennis racket string made with, 1,231,911
Animal tincture, leather, artificial, addition of odorous substance contg., 1,270,055
Animal tissue, gold beaters' skin made with, 1,235,947
—, meat container made with, 1,235,947
—, printing on, coating for, 1,304,071
—, sausage casing made with, 1,235,947
Animal trap, radium luminous lure in, 1,399,518
Animal wash, mfr. of, igongo for, 1,242,954
—, —, lead arsenate for, 1,242,955
—, —, nicotine for, 1,242,955
—, —, Paris green for, 1,242,955
—, —, process for, 1,242,955
—, —, soap for, 1,242,955
—, —, sulfur for, 1,242,955
—, —, Tephrosia for, 1,242,954; 1,242,955
Animal waste, albuminous, treating of, 1,442,339; 1,442,340; 1,442,341
—, food made with, 1,472,331
—, food product made with, 1,442,339; 1,442,340; 1,442,341
Animal wax, see Wax, animal
Anime, gum made with, 1,513,802
—, jointing compound made with, 1,420,908
—, Madagascar, paint made with, 1,236,996
—, —, resin-glycerol esters made with, 1,236,996
—, —, varnish made with, 1,236,996
—, plastic made with, 1,513,802
—, resin, artificial, made with, 1,513,802
—, sizing made with, 1,513,802
—, stencil made with, 1,371,157
—, varnish made with, 1,513,802
—, waterproofing made with, 1,513,802
—, Zanzibar, paint made with, 1,236,996
—, —, resin-glycerol esters made with, 1,236,996
—, —, varnish made with, 1,236,996
—, *see also Copal*
Animi, see Anime; Copal
Anis, see Anise
Anisaldehyde, arsanilic acid, pyruvic acid, compound of and with, 1,501,894
—, arsenic compound made with, 1,501,894
—, carbon tetrachloride, freezing point of mixtures of and, 1,270,394
—, cellulose acetate solvent contg., 1,199,800; 1,388,472
—, film, photographic, made with, 1,199,800; 1,388,472
—, fire-extinguisher contg., carbon tetrachloride and, 1,270,394
—, 2-(*p*-methoxy-phenyl)-quinoline-4.6-dicarboxylic acid, 6-ethyl ester made with, 1,138,937
—, plastic made with, 1,199,800; 1,388,472
—, pyruvic acid, arsanilic acid, compound of with, 1,501,894
—, trypanocidal compound made with, 1,501,894
Anisaldehyde-*p*-toluidine, rubber, age-resisting compound for, made with, 1,515,642
—, vulcanization accelerator, 1,515,642
—, vulcanization process using, 1,515,642
Anise, condiment made with, 1,324,538
—, extract, flavoring made with, 1,324,538
—, eleoresin, paste made with, 1,324,538
—, *see also Star anise, Illicium*
Anise camphor, see Anethole
Aniseed, see Anise

Aniseed oil, carbon tetrachloride, freezing point of mixture of and, 1,270,395
—, cellulose acetate plasticizer, 1,388,472
—, cellulose acetate solvent contg., 1,199,800; 1,388,472
—, coloring matter made with, 1,164,037
—, dentifrice made with, 1,488,097
—, fabric, printing composition for, made with, 1,164,037
—, film, photographic, made with, 1,199,800; 1,388,472
—, fire-extinguisher contg., carbon tetrachloride and, 1,270,395
—, paint made with, 1,164,037
—, plastic made with, 1,199,800; 1,388,472
Anise essence, see Anise spirits
Anise extract, glycols in, 1,384,681
—, mfr. of, amyl alcohol for, 1,384,681
—, —, butyl alcohol for, 1,384,681
—, —, ethyl acetate for, 1,384,681
—, —, ethyl alcohol for, 1,384,681
—, —, glycol for, 1,384,681
—, —, *iso*-propyl alcohol for, 1,384,681
—, —, process for, 1,384,681
—, —, propanediol for, 1,384,681
—, —, propyl alcohol for, 1,384,681
Anise oil, animal bait contg., 1,366,509
—, bait contg., 1,366,509
—, beverage made with, 1,519,789
—, cellulose acetate plasticizer, 1,388,472
—, cellulose acetate solvent contg., 1,199,800; 1,388,472
—, coffee substitute made with, 1,519,789
—, cow, contagious abortion in, treatment of with compound contg., 1,470,795
—, film, photographic, made with, 1,199,800; 1,388,472
—, licorice substitute made with, 1,519,789
—, magnesium sulfate preparation contg., 1,375,154
—, plastic made with, 1,199,800; 1,388,472
—, rat poison made with, 1,507,029
—, *see also Anethol; Star anise oil*
Anise spirits, beverage made with, 1,519,789
—, coffee substitute made with, 1,519,789
—, licorice substitute made with, 1,519,789
Anisic acid, alkaline esters of, mfr. of, process for, 1,193,650
—, *3-diethylamino-1-propyl ester of, see 3-Diethylamino-1-propylanisate*
—, vulcanization process using, 1,467,197
—, vulcanizing with, 1,467,197
Anisic aldehyde, cellulose acetate plasticizer, 1,388,472
—, *see also Anisaldehyde*
Anisidide of 2:3-oxynaphthoic acid, dye of diazo-components of, 1-amino-methylnaphthalene with, 1,452,083
—, —, aminoquinoline with, 1,452,083
—, —, aniline with, 1,452,083
—, —, anisidine with, 1,452,083
—, —, cresidine with, 1,452,083
—, —, naphthylamine with, 1,452,083
—, —, phenetidine with, 1,452,083
—, —, thioanisidine with, 1,452,083
—, —, toluidine with, 1,452,083
—, —, xylidine with, 1,452,083
o-Anisidid of 2.3-oxynaphthoic acid, see 3-Hydroxy-o'-methoxy-2-naphthanilide
Anisidine, 3-acetyl-4.5-diketo-1-*o*-methoxyphenyl-2-phenyl-pyrrolidine made with, 1,148,637
—, dye of diazo-components of anilids of 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of anisidide of 2:3-oxynaphoic acid, 1,452,083
—, dye of diazo-components of arylamides of 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of di-*m*-toluylenediamine of 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of naphthalids of 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of nitroanilide of 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of phenetidids of 2:3-oxynaphthoic acid, 1,142,083
—, dye of diazo-components of *p*-phenylenediamine of 2:3-oxynaphthoic acid, 1,452,083
—, dye of diazo-components of toluidids of 2:3-oxynaphthoic acid, 1,452,083
—, dyestuff made with, 1,270,290; 1,452,083; 1,498,417; 1,505,569; 1,506,514
—, mfr. of, autoclave for, 1,426,920
m-Anisidine, dyestuff made with, 1,452,083
—, finish remover made with, 1,167,640
—, 2-(*p*-hydroxy-*m*-methoxy-phenyl)-7-methoxy-quinoline-4-carboxylic acid made with, 1,138,936
o-Anisidine, dyestuff made with, 1,126,489; 1,128,368; 1,145,072; 1,292,385; 1,365,040; 1,452,083; 1,498,315
—, finish remover made with, 1,167,640
—, 2-(*p*-hydroxy-*m*-methoxy-phenyl)-8-methoxy-quinoline-4-carboxylic acid made with, 1,138,936
—, 8-methoxy-2-piperonyl-cinchoninic acid made with, 1,185,265
—, paint remover made with, 1,328,080
—, printing paste made with, 1,157,705
—, varnish remover made with, 1,328,080
p-Anisidine, compound $C_{17}H_{13}O_3N$, made with, 1,497,720
—, dyestuff made with, 1,145,072; 1,217,238; 1,452,083; 1,497,720
—, finish remover made with, 1,167,640
—, 2-(*p*-hydroxy-*m*-methoxy-phenyl)-6-methoxy-quinoline-4-carboxylic acid made with, 1,138,936
m-Anisidine-naphthylamine dye of diazotized amino-azo compound with 2.3-oxynaphthoic anilid, 1,452,083
o-Anisidine-1-amino-2-naphthomethyl ether, dye of diazotized amino-azo compound with 2:3-oxynaphthoic *a*-naphthalid, 1,452,083
o-Anisidine-1-amino-2-naphtholethyl ether, dye of diazotized amino-azo compound with 2:3-oxynaphthoic *b*-naphthalid, 1,452,083
o-Anisidinemethylenesulfoxylate, 1,454,748
—, arsenic compounds, organic, prepared with, 1,454,748
—, toxicity of, 1,454,748
o-Anisidine-naphthylamine, dye of diazotized amino-azo compound with 2:3-oxynaphthoic anilid, 1,452,083

o-Anisidine-naphthylamine, dye of diazotized amino-azo compound with 2: 3-oxynaphthoic *b*-naphthalid, 1,452,083
—, dye of diazotized amino-azo compound with 2:3-oxynaphthoic *b*-naphthalid, 1.452,083
o-Anisidine sulfonic acid, preparation of, 1,441,655
p-Anisidinemethylenesulfoxylate, arsenic compounds, organic, prepared with, 1,454,748
—, toxicity of, 1,454,748
p-Anisidine-naphthylamine, dye of diazotized amino-azo-compound with 2:3-oxynaphthoic anilid, 1,452,803
2-Anisidine-4-sulfonic acid dyestuff made with, 1,128,813
Anisi Fructus, see Anise
Anisi Vulgaris see Anise
Anisol, see Anisole
o-Anisolazo-1-naphthylamine, dye from, mfr. of, 1,452,083
—, dyestuff made with, 1,452,083
Anisole abrasive binder for made with 1,209,333
—, binder made with, 1,209,333
—, buttons made with, 1,209,333
—, camphor substitute, 1,181,859
—, carbon tetrachloride, freezing point of mixture of and, 1,270,393
—, celluloid substitute made with, 1,181,859; 1,181,860
—, cellulose acetate plasticizer, 1,388,472
—, cellulose acetate solvent contg., 1,181,860
—, cellulose acetate solvent made with, 1,199,800; 1,388,472
—, cellulose ether, solvent for, contg., 1.479,955
—, ethyl cellulose solvent for contg., 1,479,955
—, film made with, 1,181,859; 1,479,955
—, film, photographic, made with, 1,199,800; 1,388,472
—, fire-extinguisher contg., carbon tetrachloride and, 1,270,393
—, glue made with, 1,209,333
—, horse hair, artificial, made with, 1,181,859
—, insulation, electric, made with, 1,209,333
—, —, heat, made with, 1,209,333
—, lacquer made with, 1,181,859
—, leather, artificial, made with, 1,181,859
—, mfr. of, methyl chloride for, 1,209,333
—, —, process for, 1,209,333
—, —, sodium phenolate for, 1,209,333
—, methyl-6-methoxy-4-quinolyl ketone made with, 1,145,487
—, molded article made with, 1,209,333
—, paint made with, 1,209,333
—, paint remover made with, 1,499,101
—, phenol aldehyde condensate made with, 1,209,333
—, plastic made with, 1,199,800; 1,209,333; 1,388,472
—, silk, artificial, made with, 1,181,859
—, varnish made with, 1,181,859; 1,209,333
—, varnish remover made with, 1,499,101
—, wood, artificial, made with, 1,209,333
—, *see also Methyl-phenyl ether*
Anisole-carboxylic acid, see Methoxy-benzoic acid
Anisole-p-carboxylic acid, see Anisic acid
Anisoyl chloride, 3-diethylamino-1-propyl anisate made with, 1,193,650
Anisum, see Anise
Anisyl alcohol, see Anisic alcohol(p)
2-*o*′-Anisylamino-naphthalene-8-sulfonic acid, dyestuff made with, 1,429,782
(*p*′-Anisylazo)-2-ethoxy-1-naphthylamine, dyestuff made with, 1,505,568
(*O*-Anisylazo)-naphthylamine, dyestuff made with, 1,505,569
1-o-Anisyl-3-benzoyl-2.3-dihydro-2-phenyl-4.5-pyrroledione, see 3-Benzoyl-4.5-diketo-1-o-methoxyphenyl-2-phenyl pyrrolidine
o-Anisyl-2-naphthylamine-8-sulfonic acid, dyestuff made with, 1,429,782
o-Anisyl-2-naphthylamine-8-sulfonic acid, see also 2-o′-Anisylamino-naphthalene-8-sulfonic acid
Annatto, butter, coloring compound for, made with, 1,203,594; 1,224,910
—, butter substitute made with, 1,247,482; 1,247,483
—, cake flour contg., 1,266,202
—, food product contg., 1,266,202
—, razor strop composition contg., 1,360,343
—, stone dyed with, 1,396,118
Annealing, apparatus for, 1,388,976
—, art of, improvements in (coating apparatus with white wash), 1,388,188
—, brass, apparatus for, 1,292,352
—, copper, apparatus for, 1,292,352
—, furnace for, 1,401,983
Annealing pots, iron alloy for making formulas for, 1,380,804
Anny, see Anise
Annyle, see Anise
Anode, ammonium persulfate made with, 1,477,099
—, carbon, mfr. of, process for, 1,307,738
—, electroplating, construction of, 1,517,630; 1,517,631
—, —, mfr. of, copper for, 1,373,693
—, —, —, lead for, 1,373,693
—, —, —, process for, 1,373,693
—, iron in, 1,510,541
—, iron, electrolysis using, silicate, soluble, for, 1,311,506
—, —, —, sodium silicate for, 1,311,506
—, —, nickel coating for, 1,263,959
—, lead in, 1,510,541
—, lead and carbon for electrolysis, 1,448,036
—, mfr. of, 1,295,100
—, —, cement, acid-proof, for, 1,313,246
—, —, chromium, nickel alloy contg., for, 1,478,853
—, —, copper for, 1,510,541
—, —, copper alloy for, 1,510,541
—, —, copper sulfate for, 1,510,541
—, —, duriron for, 1,478,853
—, —, ferro-silicon for, 1,510,541
—, —, iron alloy, silicon in, for, 1,478,853
—, —, iron oxide for, 1,313,246
—, —, lead for, 1,313,246; 1,510,541
—, —, lead-tin sulfide for, 1,510,541
—, —, manganese dioxide for, 1,296,188
—, —, manganese nitrate for, 1,296,188
—, —, nichrome for, 1,478,853

Anode, mfr. of, nickel, alloy, chromium in, for, 1,478,853
—, —, platinum for, 1,223,322
—, —, porcelain for, 1,313,246
—, —, process for, 1,223,322; 1,250,757; 1,478,853; 1,510,541
—, —, pyrolusite for, 1,296,188
—, —, silicon alloy, iron in, for, 1,478,853
—, —, sulfur for, 1,510,541
—, —, tantiron for, 1,478,853
—, —, tin for, 1,510,541
—, —, trichlor-acetic acid for, 1,420,634
—, —, tungsten for, 1,223,322
—, percompounds made with, 1,477,099
—, platinum coated tantalum as, 1,477,099
—, silicon in, 1,510,541
—, tantalum partly coated with platinum as, 1,477,099
—, tin in, 1,510,541
—, vacuum discharge tube, 1,214,500
—, *X-ray tube, see X-ray tube, anode for*
Anode connector, aluminum for, 1,267,653
—, copper in, 1,267,653
Anode slime, antimony sulfate, basic, made with, 1,185,005
—, "Bismuth cement" made with, 1,487,125
—, bismuth sulfate, basic, made with, 1,185,005
—, copper made with, 1,185,005
—, copper sulfate made with, 1,185,005
—, gold made with, 1,185,005
—, silver made with, 1,185,005
—, silver chloride made with, 1,185,005
—, silver sulfate made with, 1,185,005
—, sodium meta-arsenate made with, 1,185,005
—, sodium meta-arsenite, made with, 1,185,005
—, sodium selenite made with, 1,185,005
—, tellurium sulfate, basic, made with, 1,185,005
—, tin made with, 1,487,125
—, tin chloride made with, 1,487,125
—, tin(ous) chloride made with, 1,487,125
Anode support, mfr. of, chromium, nickel alloy contg., for, 1,478,853
—, —, duriron for, 1,478,853
—, —, iron alloy, silicon in, for, 1,478,853
—, —, nichrome for, 1,478,853
—, —, nickel alloy, chromium in, for, 1,478,853
—, —, process for, 1,478,853
—, —, silicon alloy, iron in, for, 1,478,853
—, —, tantiron for, 1,478,853
—, *see also Electrodes; X-ray anode*
Anodyne, mfr. of, beechwood creosote for, 1,420,634
—, —, creosote for, 1,420,634
—, —, ethyl ether for, 1,420,634
—, —, felia, enthae for, 1,420,634
—, —, felia urtica for, 1,420,634
—, —, menthol for, 1,420,634
—, —, process for, 1,420,634
—, *see also Analgesic; Analgetic*
Anogeissus latifolia, gum of, see Indian gum
Anomite, see Biotite
Anorthite, aluminum from, 1,380,552
—, *see also Feldspar, lime*
Anorthoclase, cement, Portland, made with, 1,250,291
—, potassium chloride made with, 1,250,291
Anorthoclase, potassium compounds made with, 1,250,291; 1,435,593
—, *see also Aluminum silicates; Potassium silicates; Sodium silicates; Zeolite*
Anorthoklas, see Anorthoclase
Anorthose, see Anorthoclase
Anorthosite, aluminum from, process for, 1,302,852
—, aluminum oxide from, 1,302,852
—, dissolving, nitric acid for, 1,354,824
Ant, barium hydrosulfide and calcium oxide for destroying, 1,343,034
—, white, sodium chloride as poison for, 1,472,675
—, —, sodium hydroxide as poison for, 1,472,675
—, —, sulfuric acid as poison for, 1,472,675
—, —, sulfurous acid as poison for, 1,472,675
—, —, wood, protection of from, charcoal for, 1,201,023
—, —, —, —, creosote for, 1,201,023
—, —, —, —, hydrocarbon for, 1,201,023
—, —, —, —, petroleum for, 1,201,023
—, —, —, —, process for, 1,201,023
—, —, —, —, tar for, 1,201,023
—, wood repellent to, mfr. of, 1,312,634
Ant exterminator, see Insecticide
Ant gum, mfr. of, olefin for, 1,315,246
Anthelmintic, mfr. of, process for, 1,252,452
a-Anthol, see 1-Anthrol
Anthra-*N*-arylpyrrolle-carboxylic acids, dyestuff made with, 1,123,390
Anthracene, alizarin made with, 1,150,152
—, amino-compounds of, phenol aldehyde condensate made with, 1,143,714
—, anthracene oil contg., 1,326,515
—, anthraquinone made with, 1,297,388; 1,303,168; 1,318,631; 1,324,715; 1,355,098; 1,374,721; 1,405,954; 1,417,367; 1,420,198; 1,429,514; 1,430,538; 1,444,068; 1,455,448; 1,466,683; 1,467,258; 1,487,020
—, anthraquinone, separation of from, 1,324,716
—, arsenical solution contg., 1,456,509
—, balsa wood, fireproofing for, made with, 1,194,558
—, —, waterproofing for, made with, 1,194,558
—, boiling point of, 1,456,848
—, carbazole, separation of from, 1,318,212; 1,404,055; 1,444,068
—, carbazole contg., purification of, 1,301,796
—, —, impurity of, 1,303,639
—, carbazole removed from, 1,409,897
—, carbohydrates condensed with, 1,412,949
—, cellulose condensed with, 1,412,949
—, chlor-compounds of, phenol aldehyde condensate made with, 1,143,714
—, chlorinated, film, photographic, made with, 1,281,080; 1,342,601; 1,342,602
—, —, plastic made with, 1,281,080
—, *chlorinated, see also Chloranthracene*
—, coal tar, removal from of, process for, 1,155,442
—, creosote oil contg., 1,242,592; 1,242,593
—, crude, purification of, 1,404,055
—, dextrin condensed with, 1,412,949
—, dye, sulfur, green, made with, 1,314,929
—, dyestuff made with, 1,283,296; 1,489,225
—, fireproofing made with, 1,194,558

Anthracene, formation of, asphalt for, cracking process for, 1,313,009
—, —, gum for, cracking process for, 1,313,009
—, —, hydrocarbon for, cracking process for, 1,313,009
—, —, oil for, cracking process for, 1,313,009
—, —, paraffin for, cracking process for, 1,313,009
—, —, petroleum for, cracking process for, 1,313,009
—, —, pitch for, cracking process for, 1,313,009
—, —, resin for, cracking process for, 1,313,009
—, —, tar for, cracking process for, 1,313,009
—, fuel, liquid, made with, 1,225,405
—, —, motor, contg., 1,207,388
—, gas plant purifier sponge contg., 1,472,951
—, gas purifying sponge contg., 1,398,613
—, glucose condensed with, 1,412,949
—, "green residue" from coal, peptized with, 1,390,228
—, insecticide contg., 1,456,509
—, insulation, electric, made with, 1,156,452; 1,159,257
—, iron carburized with, 1,408,686
—, mfr. of, apparatus for, 1,516,406
—, —, coal for, 1,516,406
—, —, process for, 1,516,406
—, match made with, 1,201,191
—, melting point of, 1,456,848
—, molded article made with, 1,368,753; 1,409,275
—, motor fuel contg., 1,419,910
—, nitrated, dynamite made with, 1,198,129
—, —, explosive made with, 1,198,129
—, —, calcium nitrate for, 1,198,129
—, —, mfr. of, potassium nitrate for, 1,198,129
—, —, —, process for, 1,198,129
—, —, —, sodium nitrate for, 1,198,129
—, —, —, sulfuric acid for, 1,198,129
—, —, —, sulfuric acid, fuming for, 1,198,129
—, —, rubber accelerator, 1,291,828
—, nitroanthrone made with, 1,150,152
—, nitro-compounds of, phenol aldehyde condensate made with, 1,143,714
—, oxidation of, 1,417,367
—, —, apparatus for, 1,464,845
—, —, catalyst for, mfr. of, ammonium bichromate for, 1,486,781
—, —, —, —, ammonium metavanadate for, 1,486,781
—, —, —, —, cerium(ic) chromate for, 1,486,781
—, —, —, —, cerium(ic) iron chromate for, 1,486,781
—, —, —, —, cerium(ic) vanadate for, 1,486,781
—, —, —, —, chromium oxide for, 1,486,781
—, —, —, —, chromium vanadate for, 1,486,781
—, —, —, —, cobalt chromate for, 1,486,781
—, —, —, —, cobalt molybdate for, 1,486,781
—, —, —, —, iron(ic) chloride for, 1,486,781
—, —, —, —, iron chromate for, 1,486,781
—, —, —, —, iron(ic) chromate for, 1,486,781
—, —, —, —, iron molybdate for, 1,486,781
—, —, —, —, iron molybdic chromate for, 1,486,781
—, —, —, —, iron oxide for, 1,486,781
—, —, —, —, iron vanado chromate for 1,486,781
Anthracene, oxidation of, catalyst for, mfr. of, iron(ic) vanado chromate for, 1,486,781
—, —, —, —, nickel chromate for, 1,486,781
—, —, —, —, nickel molybdate for, 1,486,781
—, —, —, —, nickel vanadate for, 1,486,781
—, —, —, —, nitric acid for, 1,486,781
—, —, —, —, oxide for, 1,486,781
—, —, —, —, palladium oxide for, 1,486,781
—, —, —, —, process for, 1,486,781
—, —, —, —, vanadium oxide for, 1,486,781
—, —, —, —, vanadium pentoxide for, 1,486,781
—, —, catalyzing apparatus for, 1,427,554
—, —, electrolytic, 1,397,562
—, —, mercury(ic) sulfate as catalyst for, 1,324,715
—, —, molybdenum compound as catalyst for, 1,324,715
—, —, molybdenum oxide as catalyst for, 1,324,715
—, —, process for, 1,324,715
—, —, sulfuric acid for, 1,324,715
—, —, vanadium compound as catalyst for, 1,324,715; 1,355,098
—, —, vanadium oxide as catalyst for, 1,324,715
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—, —, apparatus for, 1,324,716
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—, —, *o*-cresol for, 1,326,515
—, —, *p*-cresol for, 1,326,515
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—, —, nickel propionate as catalyst for, 1,455,448
—, —, nickel sulfate as catalyst for, 1,455,448
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—, —, nitrites for, 1,467,258
—, —, nitrobenzene for, 1,455,448
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—, —, nitrogen monoxide for, 1,455,448
—, —, nitrogen oxides for, 1,467,258
—, —, nitrogen pentoxide for, 1,455,448
—, —, nitrogen tetroxide for, 1,455,448
—, —, nitrogen trioxide for, 1,455,448
—, —, nitrosyl chloride for, 1,455,448
—, —, oxanthranol for, 1,293,610; 1,455,448
—, —, oxygen for, 1,303,168; 1,355,098; 1,455,448
—, —, ozone for, 1,430,538
—, —, phthalic anhydride for, 1,515,325
—, —, potassium bichromate for, 1,420,198; 1,429,514
—, —, process for, 1,303,168; 1,324,715; 1,355,098; 1,420,198; 1,429,514; 1,430,538; 1,455,448; 1,467,258; 1,487,020; 1,515,325
—, —, propionic acid for, 1,455,448; 1,467,258
—, —, pumice for, 1,303,168
—, —, sodium acetate for, 1,467,258
—, —, sodium bichromate for, 1,324,715; 1,420,198; 1,429,514
—, —, sodium nitrite for, 1,467,258
—, —, sodium propionate for, 1,467,258
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—, —, uranium oxide for, 1,303,168
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—, —, vanadium oxide as catalyst for, 1,324,715; 1,355,098
—, —, vanadium pentoxide as catalyst for, 1,324,715
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—, methyl anthracene, removal of from, 1,429,514
—, —, separation of from, 1,420,198
—, molded article made with, 1,409,275
—, oxanthranol from, 1,293,610
—, oxyderivatives of, mfr. of, 1,465,689
—, —, preparation for, 1,446,163
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—, phenanthrene, removal of from, 1,429,514
—, —, separation of from, 1,420,198

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—, —, separation of from, 1,420,198
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—, —, hydrogen for, 1,324,716
—, —, natural gas for, 1,324,716
—, —, nitrogen for, 1,324,716
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—, —, water gas for, 1,324,716
—, purification of, 1,404,056; 1,420,198; 1,429,514
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—, —, *o*-dichlor-benzene for, 1,429,514
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—, —, flue gas for, 1,324,716
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—, —, natural gas for, 1,324,716
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—, —, pentachlor-ethane for, 1,420,198
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—, —, tetrachlor-ethane for, 1,420,198
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—, —, water gas for, 1,324,716
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—, —, phenol monohydrate for, 1,461,745
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—, —, phenol monohydrate as, 1,461,745
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—, 3-*b*-anthraquinonyl-2-phenyl-1.2.4.-isonaphthotriazine made with, 1,162,496
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—, dyestuff, bucking of, using, 1,156,048
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—, —, anthracene disulfonic acid for, 1,455,448
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—, —, sodium bisulfate for, 1,437,571
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—, —, mercury for, 1,437,571
—, —, mercury(ous) sulfate for, 1,437,571
—, —, process for, 1,437,571
—, —, sodium bisulfate for, 1,437,571
—, —, sulfate for, 1,437,571
—, —, sulfuric acid for, 1,437,571
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Anthraquinone-1.7-disulfonic acid, mfr. of, anthraquinone for, 1,437,571
—, —, mercury for, 1,437,571
—, —, mercury(ous) sulfate for, 1,437,571
—, —, process for, 1,437,571
—, —, sodium bisulfate for, 1,437,571
—, —, sodium sulfate for, 1,437,571
—, —, sulfuric acid for, 1,437,571
—, separating from isomers, 1,437,571
Anthraquinone-1.8-disulfonic acid mfr. of, anthraquinone for, 1,437,571
—, —, mercury for, 1,437,571
—, —, mercury(ous) sulfate for, 1,437,571
—, —, process for, 1,437,571
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—, —, mercury for, 1,437,571
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—, —, sodium bisulfate for, 1,437,571
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—, —, process for, 1,437,571
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—, —, —, sulfate for, 1,260,535
—, sodium salt for, mfr. of, process for, 1,260,535
—, —, —, sodium bisulfate for, 1,260,535
—, —, —, sodium carbonate for, 1,260,535
—, —, —, sodium chloride for, 1,260,535
—, —, —, sodium hydroxide for, 1,260,535
—, —, —, sodium sulfate for, 1,260,535
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—, —, —, chloride for, 1,260,535
—, —, —, hydroxide for, 1,260,535
—, —, —, oxide for, 1,260,535
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—, —, —, sulfate for, 1,260,535
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—, —, 1-*b*-anthraquinonylazo-2-naphthylamine for, 1,162,496
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—, —, 2-naphthylamine for, 1,162,496
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—, —, rosin oil for, 1,228,885
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Antimonii Oxidum, see Antimony trioxide
Antimonious oxide, see Antimony trioxide
Antimonite, see Stibnite
Antimonium crudum, see Antimony trisulfide
Antimonium nigrum, see Antimony trisulfide
Antimony, alloy contg., 1,124,302; 1,158,671; 1,158,672; 1,158,673; 1,158,674; 1,158,675; 1,168,962; 1,194,101; 1,195,376; 1,239,785; 1,239,854; 1,247,977; 1,280,908; 1,280,909; 1,286,921; 1,304,849; 1,328,694; 1,425,330; 1,428,638; 1,448,571; 1,453,928; 1,468,407; 1,475,503; 1,497,011; 1,502,425; 1,512,190; 1,513,806
—, alloy made with, 1,203,991; 1,269,000; 1,502,321
—, alloy contg., iron, coating of using, 1,161,944; 1,168,663; 1,168,664
—, —, lead, electrolytic deposition of on, process for 1,306,479
—, —, reflectors mfr. from, 1,336,224
—, —, steel, coating of using, 1,161,944; 1,168,663; 1,168,664
—, —, tin, copper, phosphorous, lead and, 1,359,194
—, —, self-disintegrating, contg., 1,421,471
—, —, solder for, contg., 1,344,566
—, alloy for coating wire contg., lead 91, zinc 1, antimony 8, 1,357,907
—, alloy for repairing cylinder walls contg., 1,404,001
—, alloy for soldering aluminum contg., 1,344,566
—, alloy of arsenic, boron and, 1,338,279
—, alloy of bismuth and, 1,452,750
—, alloy of cadmium and, 1,452,750
—, alloy of lead and, 1,452,750
—, alloy of tin and, 1,452,750
—, alloy of vanadium and, 1,305,166
—, aluminum, solder for, contg., 1,239,854; 1,328,694; 1,344,566
—, —, —, made with, 1,194,101

Antimony, aluminum alloy contg., 1,247,977; 1,422,591; 1,453,928
—, aluminum chloride made with, 1,270,226
—, aluminum solder contg., 1,328,694; 1,416,924; 1,437,641
—, *p*-amino-phenol made with, 1,239,822
—, ammonia synthesis with, 1,396,557
—, aniline made with, 1,239,822
—, antimonic acid made with, 1,364,353
—, antimony arsenide from, 1,338,279
—, antimony nitrate from, 1,329,374
—, antimony pentachloride made with, 1,475,422
—, antimony pentasulfide made with, 1,498,564
—, antimony phosphide from, 1,338,279
—, antimony sodium chloride made with, 1,238,307
—, antimony sulfide from, 1,415,127
—, antimony trichloride made with, 1,425,565
—, antimony trichloride made from chlorine and, 1,384,918
—, antimony trioxide made with, 1,504,685
—, arsenic, separation of from, apparatus for, 1,283,427
—, —, —, calcium carbonate for, 1,283,427
—, —, —, charcoal for, 1,283,427
—, —, —, coke for, 1,283,427
—, —, —, chlorine for, 1,475,422
—, —, —, iron for, 1,283,427
—, —, —, lime for, 1,283,427
—, —, —, limestone for, 1,283,427
—, —, —, process for, 1,198,095; 1,283,427; 1,475,422
—, —, —, sulfuric acid for, 1,198,095
—, arseno-stibino compounds from, 1,422,294
—, babbitt metal contg., 1,239,785
—, babbitt metal constituent, 1,351,404; 1,399,810
—, balata vulcanized with, 1,320,166
—, battery plates of lead contg., 1,381,387
—, bearing metal contg., 1,269,000; 1,286,921; 1,497,011; 1,502,321; 1,502,425; 1,512,190
—, bearing metal, hardening composition for contg., 1,502,425
—, bismuth, removal from of, alkali for, 1,166,721
—, —, —, carbon for, 1,166,721
—, —, —, process for, 1,166,721
—, —, —, sodium hydroxide for, 1,166,721
—, —, —, sulfates for, 1,166,721
—, —, —, sulfides for, 1,166,721
—, —, —, sulfur for, 1,166,721
—, —, —, zinc for, 1,166,721
—, bismuth cement contg., 1,487,125
—, bismuth separated contg., 1,428,041
—, black, paint contg., mfr. of, 1,450,688
—, —, tempering compound contg., 1,361,298
—, —, *see also Antimony trisulfide*
—, blasting cartridge made with, 1,226,833
—, brake shoe made with, 1,205,482
—, brass, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating of with, process for, 1,224,339
—, —, lead coated, made using, 1,501,293
—, bronze, lead coated, made using, 1,501,293
—, *butter of, see Antimony trichloride*
—, carbon tetrachloride, sulfur monochloride, separation of from using, 1,260,621
Antimony, catalyst made with, 1,314,952
—, catalyst, iron as, made with, 1,489,497
—, catalyst contg., ammonia made with, 1,495,655
—, catalyst poison, 1,489,497; 1,510,598
—, —, ammonia mfr., 1,148,570; 1,152,930
—, coating iron with, process for, 1,380,847
—, coating zinc-plated iron with, 1,436,729
—, cobalt alloy contg., 1,513,806
—, colloidal, preparing, cellulose soda liquor for, 1,460,012
—, —, —, cellulose sulfite liquor for, 1,460,012
—, —, copper, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating of with, process for, 1,224,339
—, —, lead coated, made using, 1,501,293
—, —, separation from of, chlorine for, 1,475,422
—, —, —, process for, 1,475,422
—, copper alloy contg., 1,168,962
—, —, bearing metal, 1,223,001
—, —, brush, electric, made using, 1,222,999
—, —, mfr. of, apparatus for, 1,246,571
—, —, —, process for, 1,246,571
—, copper matte, separation from of, apparatus for, 1,175,266
—, —, —, copper for, 1,175,266
—, —, —, process for, 1,175,266
—, copper sulfate solution contg., removal from of, process for, 1,276,130
—, copper sulfide, separation from of, apparatus for, 1,175,266
—, —, —, copper for, 1,175,266
—, —, —, process for, 1,175,266
—, *crimson, see Antimony pentasulfide*
—, *crude, see Antimony trisulfide*
—, cyanogen liberated from cyanides by chlorine and, 1,399,829
—, diamond, polishing of, cement for holding during, made with, 1,364,353
—, dimethylerythrene vulcanized with, 1,320,166
—, distillation of, apparatus for, 1,242,339; 1,242,340
—, —, carbon for, 1,242,339; 1,242,340
—, —, carbon monoxide for, 1,242,339; 1,242,340
—, —, coal tar pitch for, 1,242,339; 1,242,340
—, —, coke for, 1,242,339; 1,242,340
—, —, graphite for, 1,242,339; 1,242,340
—, —, ore for, 1,242,339; 1,242,340
—, —, —, process for, 1,242,339; 1,242,340
—, electrode, carbon, protective coating for of, 1,314,603
—, —, electric furnace, protective coating for of, 1,314,603
—, —, graphite, protective coating for of, 1,314,603
—, electrodeposition of zinc, effect on, 1,435,703
—, electrolytic potential of, 1,397,514
—, electrolytic slime contg., recovery from of, 1,315,660
—, erythrene India rubber vulcanized with, 1,320,166
—, explosive contg., 1,397,826
—, explosive of liquid air and, 1,375,243
—, ferro-chromium as refractory lining for furnaces for, 1,492,685
—, ferro-silicon as refractory lining for furnaces for, 1,492,685

Antimony, ferro-vanadium as refractory lining for furnaces, for, 1,492,685
—, fractional distillation of alloys contg., 1,208,237
—, galvanized iron colored with, 1,436,729
—, gas mantle made with, 1,123,869
—, gasolene made with, 1,373,653
—, glass made with, 1,192,048
—, —, glass, opaque, made with, 1,245,487
—, —, —, translucent, made with, 1,192,048
—, *golden, see Antimony pentasulfide*
—, golden antimony sulphuret made with, 1,498,564
—, *gray, see Stibnite*
—, gutta-percha vulcanized with, 1,320,166
—, halogen compounds of, catalyst in sulfur-phenol resin formation, 1,435,801
—, iron, alloy (superficial) of and mfr. of process for, 1,224,339
—, —, catalyst, made with, 1,489,497
—, —, coating of using, 1,161,944; 1,183,217
—, —, coating of with, process for, 1,224,339
—, —, lead coated, made with, 1,144,524; 1,501,293
—, iron coated with, 1,312,716; 1,378,439
—, iron coated with, alloy contg., 1,378,439
—, iron plated with, 1,397,514
—, isoprene vulcanized with, 1,320,166
—, *Japanese, see Antimony trisulfide*
—, lead, brass coated with, made using, 1,501,293
—, —, bronze coated with, made using, 1,501,293
—, —, copper coated with, made using, 1,501,293
—, —, iron coated with, made with, 1,144,524; 1,501,293
—, —, metal coated with, made using, 1,501,293
—, —, removal from of, 1,285,714; 1,418,148; Re-15,960; 1,513,307
—, —, separation from of, chlorine for, 1,475,422
—, —, —, process for, 1,475,422
—, —, steel coated with, made using, 1,501,293
—, lead alloy contg., 1,158,671; 1,158,672; 1,158,673; 1,158,674; 1,158,675; 1,203,991; 1,357,907; 1,502,321; 1,512,190
—, —, air, cleaning of using, 1,515,949
—, —, anode, rectifier, electrolytic, made with, 1,495,582
—, —, battery made with, 1,375,012
—, —, battery, storage, made with, 1,155,047; 1,375,012; 1,486,430; 1,503,060; 1,503,070; 1,503,098
—, —, —, —, container for, made with, 1,197,022
—, —, —, —, electrode for, made with, 1,190,982; 1,197,816; 1,381,387; 1,498,359
—, —, —, —, name plate, made with, 1,492,464
—, —, electrode, chromic acid made with, 1,491,944
—, —, gas, cleaning of using, 1,515,949
—, —, hardening composition for contg., 1,502,425
—, —, iron, coating of using, 1,184,194; 1,520,731; 1,520,732
—, —, —, lead coated, made with, 1,195,376
—, —, lead, iron coated with, made with, 1,195,376
—, —, —, steel coated with, made with, 1,195,376
—, —, printing plate made with, 1,377,503
—, —, projectile made with, 1,380,773
Antimony, lead, rustproofing, using, 1,520,731; 1,520,732
—, —, scrap, melting of, process for, 1,513,875
—, —, shrapnel ball made with, 1,246,204
—, —, steel, coating of using, 1,184,194
—, —, —, lead coated, made with, 1,195,376
—, lead and separation of, 1,401,743
—, lead bullion contg., removing from, 1,386,503
—, lead ores contg., treating, 1,430,270; 1,430,271
—, lead separated from, 1,428,041
—, leather finishing mixture contg., 1,385,184
—, liquid air explosive contg., 1,440,041; 1,441,957
—, lithopone, darkening of by impurities of, 1,140,354
—, manganese dioxide contg., purifying, 1,343,585; 1,352,087
—, manganese dioxide impurity, 1,305,250; 1,305,251; 1,305,252
—, metal, lead coated, made using, 1,501,293
—, metals, precious, coated with, 1,335,024
—, metal article made with, 1,223,322
—, *needle, see Antimony sulfide*
—, nickel contg., 1,468,407
—, ore contg., antimony made with, 1,163,286
—, —, arsenic made with, 1,163,286
—, —, bismuth made with, 1,163,286
—, —, cadmium made with, 1,163,286
—, —, calcium sulfate made with, 1,163,286
—, —, concentration of, carbon for, 1,276,058
—, —, —, carbon monoxide for, 1,276,058
—, —, —, coal, bituminous, for, 1,276,058
—, —, concentration of, coke for, 1,276,058
—, —, —, iron oxide for, 1,276,058
—, —, —, process for, 1,276,058
—, —, —, sulfides for, 1,276,058
—, —, copper made with, 1,163,286
—, —, iron made with, 1,163,286
—, —, recovery of, 1,292,075
—, —, treating, 1,388,086
—, —, zinc made with, 1,163,286
—, packing material contg. alloy of, 1,441,951
—, platinum, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating of with, process for, 1,224,339
—, poisoning with, electrolytic treatment for cure of, 1,123,683
—, position in electro-chemical series, 1,429,131
—, *potassium tartrate and, see Antimony potassium tartrate*
—, production of, air for, 1,144,402; 1,146,373; 1,150,787; 1,163,286; 1,182,320; 1,192,037
—, —, alkali carbonate for, 1,144,402; 1,146,373
—, —, alkali earth carbonate for, 1,144,402; 1,146,373
—, —, alkali earth hydroxide for, 1,144,402
—, —, alkali earth oxide for, 1,144,402
—, —, alkali hydroxide for, 1,144,402
—, —, alkali oxide for, 1,144,402
—, —, ammonium hydroxide for, 1,150,787
—, —, ammonium sulfate for, 1,513,775
—, —, antimony, ore contg., for, 1,163,286
—, —, antimony sulfide for, 1,243,681; 1,261,023
—, —, antimony trisulfide for, 1,475,294
—, —, apparatus for, 1,192,037; 1,243,681; 1,456,615; 1,475,294; 1,513,775
—, —, arsenic, ore contg., for, 1,163,286

Antimony, production of, arsenide ores for, 1,150,787
—, —, azurite for, 1,146,373
—, —, barium carbonate for, 1,144,402; 1,146,373
—, —, barium hydroxide for, 1,144,402; 1,146,373
—, —, barium oxide for, 1,144,402; 1,146,373
—, —, bismuth, ore contg., for, 1,163,286
—, —, bromide for, 1,245,137
—, —, cadmium, ore contg., for, 1,163,286
—, —, calcium, ore contg., for, 1,163,286
—, —, calcium acetate for, 1,456,615
—, —, calcium carbonate for, 1,144,402; 1,146,373; 1,150,787; 1,163,286; 1,456,615
—, —, calcium chloride for, 1,144,402; 1,146,373
—, —, calcium fluoride for, 1,150,787
—, —, calcium hydroxide for, 1,144,402; 1,146,373; 1,163,286
—, —, calcium oxide for, 1,144,402; 1,146,373; 1,456,615
—, —, calcium oxide, ores contg., for, 1,150,787
—, —, calcium sulfide for, 1,456,615
—, —, carbonate ores for, 1,150,787; 1,163,286; 1,192,037; 1,245,137
—, —, carbon dioxide for, 1,150,787; 1,192,037
—, —, chloride for, 1,144,402; 1,146,373
—, —, chlorine for, 1,144,402; 1,163,286; 1,192,037; 1,245,137; 1,475,422
—, —, coal for, 1,513,775
—, —, coke for, 1,513,775
—, —, coke breeze for, 1,513,775
—, —, copper, ore contg., for, 1,163,286
—, —, copper carbonate for, 1,146,373
—, —, copper(ic) chloride for, 1,144,402; 1,146,373
—, —, copper(ous) chloride for, 1,144,402; 1,146,373
—, —, copper ore for, 1,144,402; 1,146,373
—, —, copper oxide, ores contg., for, 1,150,787
—, —, copper sulfide, ores contg., for, 1,150,787
—, —, copper sulfide ore for, 1,475,843
—, —, copper(ous) sulfide for, 1,146,373
—, —, flue dust for, 1,182,320
—, —, galena for, 1,144,480
—, —, gasolene for, 1,243,681
—, —, gold, ore contg., for, 1,163,286
—, —, gold ore for, 1,475,843
—, —, halogen salt for, 1,192,037
—, —, hydrocarbon for, 1,243,681
—, —, hydrochloric acid for, 1,150,787
—, —, hydrofluoric acid for, 1,150,787
—, —, hydrogen sulfide for, 1,144,402; 1,146,373; 1,150,787; 1,456,615
—, —, iron for, 1,146,373; 1,163,286; 1,475,843
—, —, iron, ore contg., for 1,163,286
—, —, iron(ous) carbonate for, 1,146,373
—, —, iron(ic) chloride for, 1,144,402; 1,146,373; 1,456,615
—, —, iron(ous) chloride for, 1,144,402; 1,146,373; 1,456,615
—, —, iron(ic) hydroxide for, 1,456,615
—, —, iron ore for, 1,146,373
—, —, iron scrap for, 1,456,615
—, —, iron sulfide, ores contg., for, 1,150,787
—, —, iron sulfide ore for, 1,456,615
—, —, iron(ic) sulfite for, 1,146,373
—, —, iron(ous) sulfite for, 1,146,373
—, —, lead, ore contg., for, 1,163,286
Antimony, production of, lead, lead ore for, 1,144,480
—, —, lead smelter slag for, 1,146,373
—, —, lead sulfite ore for, 1,475,843; 1,513,775
—, —, limestone for, 1,163,286; 1,456,615
—, —, magnesium carbonate for, 1,144,402; 1,146,373
—, —, magnesium chloride for, 1,144,402; 1,146,373
—, —, magnesium hydroxide for, 1,144,402; 1,146,373
—, —, magnesium hydroxide, ores contg., for, 1,150,787
—, —, magnesium oxide for, 1,144,402; 1,146,373
—, —, mattes for, 1,150,787
—, —, metal carbonate for, 1,146,373
—, —, mineral for, 1,150,787
—, —, nickel hydroxide, ores contg., for 1,150,787
—, —, nickel speiss for, 1,505,718
—, —, nickel sulfide, ores contg., for, 1,150,787
—, —, nitric acid for, 1,144,480; 1,150,787
—, —, nitrogen for, 1,192,037
—, —, oil mineral, for, 1,243,681
—, —, ores for, 1,150,787; 1,163,286; 1,192,037; 1,513,775
—, —, oxides ores for, 1,150,787; 1,163,286; 1,192,037; 1,245,137
—, —, oxygen for, 1,144,402; 1,146,373; 1,163,286; 1,192,037
—, —, potassium carbonate for, 1,144,402; 1,146,373
—, —, potassium chloride for, 1,146,373
—, —, potassium cyanide for, 1,475,843
—, —, potassium hydroxide for, 1,144,402; 1,146,373
—, —, potassium oxide for, 1,144,402; 1,146,373
—, —, process for, 1,144,402; 1,144,480; 1,146,373; 1,150,787; 1,163,286; 1,182,320; 1,192,037; 1,243,681; 1,245,137; 1,456,615; 1,475,294; 1,475,422; 1,475,843; 1,505,718; 1,513,775
—, —, pyrites for, 1,144,480
—, —, pyrites ores for 1,456,615
—, —, siderite for, 1,146,373
—, —, silica, ores contg., for, 1,150,787
—, —, silver, ore contg., for, 1,163,286
—, —, silver ore for, 1,475,843
—, —, slag for, 1,144,402; 1,146,373
—, —, slimes for, 1,150,787
—, —, sodium carbonate for, 1,144,402; 1,146,373; 1,505,718
—, —, sodium chloride for, 1,144,402; 1,146,373; 1,150,787; 1,245,137; 1,475,843
—, —, sodium hydroxide for, 1,144,402; 1,146,373
—, —, sodium hypochlorite for, 1,245,137
—, —, sodium nitrate for, 1,150,787
—, —, sodium oxide for, 1,144,402; 1,146,373
—, —, sodium sulfate for, 1,475,843
—, —, sodium sulfide for, 1,456,615
—, —, speiss for 1,505,718
—, —, steam for, 1,243,681
—, —, strontium carbonate for, 1,144,402; 1,146,373
—, —, strontium carbonate, ores contg., for, 1,150,787
—, —, strontium hydroxide for, 1,144,402; 1,146,373

Antimony, production of, strontium oxide for, 1,144,402; 1,146,373
—, —, sulfates for, 1,192,037
—, —, sulfide ore for, 1,144,480; 1,150,787; 1,245,137; 1,475,843
—, —, sulfur for, 1,192,037
—, —, sulfur dioxide for, 1,144,402; 1,146,373; 1,163,286; 1,245,137
—, —, sulfuric acid for, 1,150,787; 1,182,320; 1,475,843; 1,513,775
—, —, telluride for, 1,150,787
—, —, zinc for, 1,475,843
—, —, zinc, ore contg., for, 1,163,286
—, —, zinc carbonate, ores contg., for, 1,150,787
—, —, zinc ore for, 1,146,373
—, —, zinc oxide for, 1,182,320
—, —, zinc sulfide ore for, 1,144,480; 1,475,843; 1,513,775
—, railway signal fuse made with, 1,180,438
—, recovery from ores, 1,427,765
—, recovery of, carbon for, 1,129,431
—, —, carbon dioxide for, 1,129,431
—, —, chloride for, 1,315,660
—, —, chloridizing volatilization for, 1,427,765
—, —, chlorine and hydrogen for, 1,430,454
—, —, hydrochloric acid for, 1,129,431; 1,315,660
—, —, manganese dioxide for, 1,129,431
—, —, potassium chromate for, 1,129,431
—, —, process for, 1,129,431; 1,315,660
—, —, sodium bicarbonate for, 1,129,431
—, —, sodium hydroxide for, 1,129,431
—, —, sodium nitrate for, 1,129,431
—, —, sodium sulfide for, 1,129,431
—, —, sodium sulfite for, 1,129,431
—, —, sulfur dioxide for, 1,129,431
—, —, sulfuric acid for, 1,315,660
—, —, from matte, 1,377,217
—, red, paint contg., mfr. of, 1,450,688
—, removal from iron solution, 1,466,793
—, removal from tin, 1,414,257; 1,414,259
—, removal from zinc solutions, 1,434,693; 1,435,703
—, removal from zinc sulfate solutions, 1,429,131
—, removal of from zinc solutions, zinc for, 1,380,712
—, removing from ores, sodium chloride for, 1,356,100
—, removing from zinc sulfate solutions, 1,362,166
—, removing from zinc sulfate solutions, ozone for, 1,331,334
—, resistance, electrical, contg., 1,298,457; 1,298,627
—, rubber, artificial, vulcanized with, 1,320,166
—, —, synthetic vulcanized with, 1,320,166
—, rubber composition contg., 1,254,632
—, rubber vulcanized with, 1,320,166
—, rustproofing using, 1,224,339; 1,493,012
—, separating, electrolysis for, 1,377,217
—, separating from lead, lead nitrate for, 1,389,511
—, silver, separation from of, chlorine for, 1,475,422
—, —, —, process for, 1,475,422
—, slime, electrolytic, contg., separation from of, 1,305,787; 1,305,788
—, solder contg., 1,239,785; 1,328,694; 1,344,566
Antimony, starring of, alkali salt in composition for, 1,284,164
—, —, antimony sulfide in composition for, 1,284,164
—, —, antimony tetroxide in composition for, 1,284,164
—, —, antimony trioxide in composition for, 1,284,164
—, —, carbon in composition for, 1,284,164
—, —, iron sulfide in composition for, 1,284,164
—, —, potassium carbonate in composition for, 1,284,164
—, —, potassium chlorate in composition for, 1,284,164
—, —, sodium carbonate in composition for, 1,284,164
—, steel coated with, 1,312,716
—, steel, coating of using, 1,161,944; 1,183,217
—, —, lead coated, made using, 1,501,293
—, sulfur, separation from of, chlorine for, 1,475,422
—, —, —, process for, 1,475,422
—, tin, removal from of, 1,414,257
—, tin alloy contg., 1,512,190
—, *tin alloy contg., see also White metal*
—, tin ore contg., treating, 1,435,303; 1,461,957
—, tin separated from, 1,428,041
—, titanium, separation from of, chlorine for, 1,475,422
—, —, —, process for, 1,475,422
—, torpedo, toy, contg., 1,406,369
—, type metal made with, 1,203,991
—, "vermillion of," mfr. of, 1,417,033
—, volatilization of, apparatus for, 1,262,452; 1,262,453
—, —, chlorine for, 1,262,452; 1,262,453
—, —, process for, 1,262,452; 1,262,453
—, volatilizing, 1,427,765
—, vulcanization process using, 1,249,180
—, white metal contg., 1,328,694; 1,344,566
—, wireless detector made with, 1,182,946
—, wireless telegraph detector made of ferro-silicon and, 1,158,122
—, zinc, electrodeposition of, elimination for, solution, 1,322,104
—, —, removal from of, process for, 1,241,966
—, —, separation from of, chlorine for, 1,475,422
—, —, separation from of, process for, 1,167,700; 1,167,701; 1,262,190; 1,475,422
—, zinc ores, separation of from, 1,399,020
—, zinc oxide pigment contg., removal of, 1,292,976
—, zinc separated from, 1,428,041
—, zinc smelter fumes contg., 1,154,601
—, zinc solution, removal from of, process for, 1,255,436
—, —, separation from of, process for, 1,255,435; 1,255,438
—, zinc solutions contg., purifying, 1,382,494
—, zinc sulfate, removal from of, process for, 1,255,436
—, —, —, zinc dust for, 1,283,077; 1,283,078
—, —, separation from of, 1,263,852
—, —, —, process for, 1,255,435; 1,255,438
—, *see also Antimony trisulfide*
Antimony acetate, antimony sulfide from, 1,337,380

Antimony aluminate, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Antimony arsenide, battery, wet, electrode for, of, 1,262,019
—, mfr. of, arsenic for, 1,262,019
—, preparing, 1,338,279
Antimony barium sulfide, antimony pentasulfide from, 1,414,837
—, antimony sulfide from, 1,415,127
Antimony bromide, antimony chloride from, 1,445,082
—, copper mineral, ore, separation from of using, 1,151,117
—, gangue, hematite, separation of from, using, 1,244,884
—, —, iron, ore, separation of from, using, 1,244,884
—, —, limonite, separation of from using, 1,244,884
—, hematite, gangue, separation from of, using, 1,244,884
—, —, ore, separation from of, using, 1,151,117
—, —, separation from ore of using, 1,151,117
—, iron ore, concentration of, using, 1,203,897
—, —, gangue, separation from of, using, 1,244,884
—, lead mineral, ore, separation from of using, 1,151,117
—, limonite, gangue, separation from of, using, 1,244,884
—, —, ore, separation from of using, 1,151,117
—, preparation of, 1,445,082
—, specific gravity of, 1,151,117
—, zinc mineral, ore, separation from of using, 1,151,117
Antimony butter, see Antimony trichloride
Antimony-calcium sulfide, formation of, 1,414,836; 1,414,837
Antimony-calcium tartrate, see Calcium antimony tartrate
Antimony carbonate, pyrotechnic composition ingredient, 1,423,264
Antimony carbonate ore, sulfur dioxide smelter fumes absorbed using, 1,236,236
Antimony chlorate, pyrotechnic composition ingredient, 1,423,264
Antimony chloride, antimony sulfide from, 1,332,982
—, basic, airplane dope made with, 1,388,825; 1,388,828
—, —, asphalt, fireproofing of, using, 1,388,829
—, —, creosote, fireproofing of, using, 1,388,829
—, —, fabric, fireproofing of using, 1,388,825; 1,388,828
—, —, —, waterproofing of using, 1,388,825; 1,388,828
—, —, fireproofing process using, 1,388,825; 1,388,828; 1,388,829
—, —, pitch, fireproofing of, using, 1,388,829
—, —, polish made with, 1,474,133
—, —, tar, fireproofing of, using, 1,388,829
—, —, waterproofing process using, 1,388,825; 1,388,828; 1,388,829
Antimony chloride, catalyst, for mfr. of sulfur trioxide, made with, 1,204,141
—, catalyst in hydrocarbon cracking, 1,381,098
—, catalyst in terpene chlorination, 1,433,666
—, China wood oil solidified with, 1,383,864
—, flooring made with, 1,383,864
—, formation of, 1,356,100; 1,396,740; 1,406,595; 1,434,485; 1,434,486
—, galvanized wire tested with, 1,430,648; 1,430,649; 1,430,650; 1,430,651
—, iron coated with antimony by means of, 1,378,439
—, lead, reinforced, made with, 1,280,908; 1,280,909
—, mfr. of, bromine for, 1,445,082
—, —, lead sulfide ore for, 1,491,653
—, —, process for, 1,491,653
—, —, sulfur chloride for, 1,491,653
—, —, zinc sulfide ore for, 1,491,653
—, molded article made with, 1,383,864
—, perylen mfr. with, 1,384,615
—, rubber, reclaiming of, using, 1,189,721
—, —, vulcanization of, using, 1,204,374
—, salvarsan derivative made from mercury(ic) iodide and, 1,269,792
—, solvent for, acetone as, 1,383,864
—, subliming temperature of, 1,434,485; 1,434,486
—, sulfur trioxide, catalyst for the mfr. of, made with, 1,204,141
—, tile made with, 1,383,864
—, tung oil, solidified, made with, 1,383,864
—, volatilizing, 1,396,740
Antimony(ic) chloride, amylene chlorhydrin made with, 1,315,229
—, butylene chlorhydrin made with, 1,315,229
—, chlorhydrin made with, 1,315,229
—, ethylene chlorhydrin made with, 1,315,229
—, propylene chlorhydrin made with, 1,315,229
Antimony(ous) chloride, amylene chlorhydrin made with, 1,315,229
—, butylene chlorhydrin made with, 1,315,229
—, chlorhydrin made with, 1,315,229
—, ethylene chlorhydrin made with, 1,315,229
—, propylene chlorhydrin made with, 1,315,229
Antimony colloid, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, enamel, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Antimony compound, benzene, refining of using, 1,515,733
—, catalyst, iron as, made with, 1,489,497
—, catalyst for sulfuric acid mfr., made with, 1,227,044
—, catalyst poison, 1,489,497; 1,510,598
—, —, for ammonia mfr., 1,148,570; 1,152,930
—, copper, removal from of, 1,232,080
—, copper sulfate, removal from of, 1,232,080
—, enamel, opaque, made with, 1,314,831
—, gasolene, refining of using, 1,515,733
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
—, hydrocarbon, refining of using, 1,515,733
—, iron, catalyst, made with, 1,489,497
—, kerosene, refining of using, 1,515,733

Antimony compound, lithopone darkened by impurities of, 1,139,427
—, naphtha, refining of using, 1,515,733
—, petroleum products, refining of using, 1,515,733
—, rustproofing of using, 1,493,012
—, sulfur trioxide, catalyst for the mfr. of, made with, 1,227,044
—, sulfuric acid, catalyst for the mfr. of, made with, 1,227,044
—, wood, fungi, preservation from attacks by with composition contg., 1,182,760
—, —, insects, preservation from attacks by with composition contg., 1,182,760
—, —, molds, preservation from attacks by with composition contg., 1,182,760
—, —, parasites, preservation from attacks by with composition contg., 1,182,760
—, —, teredo, preservation from attacks by with composition contg., 1,182,760
—, zinc sulfate, removal of from, 1,496,004
Antimony dimethyl-dithiocarbamate, vulcanization accelerator, 1,513,122
Antimony dithiocarbamate (substituted), vulcanizing accelerator, 1,386,153
Antimony electrode, nitric acid made with, 1,334,590
—, nitrogen oxide made with, 1,334,590
—, nitrous acid made with, 1,334,590
Antimony fluoride, dye developing bath contg., 1,426,299
Antimony glance, see Stibnite
Antimony halide, lamp, vapor electric, made with, 1,176,630; 1,176,661
—, perylene made with, 1,384,615
—, resin, artificial, made with, 1,435,801
Antimony hydroxide, dye absorbed by mordant of, 1,337,673
—, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Antimony-lead alloy, battery, storage, made with, 1,279,508
—, storage battery grids of, 1,328,394
Antimony lead anode, copper, electrodeposition of using, 1,283,280
Antimony lead grid, battery, storage, negative plate for made with, 1,284,425
Antimony lead sulfide, resistance, electrical, contg., 1,298,627
Antimonyl methyl-dithiocarbamate, vulcanization accelerator, 1,513,122
Antimonyl potassium tartrate, see Potassium antimonyl tartrate
Antimony needle, see Antimony trisulfide; Black antimony
Antimony nitrate, antimony sulfide from, 1,337,380
—, cement contg., 1,329,374
—, preparing, 1,329,374
—, pyrotechnic composition ingredient, 1,423,264
Antimony nitride, ammonia synthesis with, 1,396,557
Antimony nitrite, pyrotechnic composition ingredient, 1,423,264
Antimony ore, antimony pentasulfide made with, 1,498,564
—, arsenic made with, 1,188,705
—, bismuth made with, 1,188,705
—, cadmium made with, 1,188,705
—, copper made with, 1,188,705
—, gold made with, 1,188,705
—, golden antimony sulphuret made with, 1,498,564
—, *grey, see Stibnite*
—, iron made with, 1,188,705
—, lead made with, 1,188,705
—, manganese dioxide made with, 1,188,705
—, silver made with, 1,188,705
—, treating, 1,427,765
—, treatment of, apparatus for, 1,262,452; 1,262,453
—, —, chlorine for, 1,262,452; 1,262,453
—, —, process for, 1,262,452; 1,262,453
—, zinc made with, 1,188,705
—, *see also Ore; Stibnite*
Antimony oxide, antimony coating on iron produced by, 1,380,847
—, antimony sodium chloride made with, 1,238,307
—, antimony sulfide from, 1,415,127
—, borosilicate glass mfr. with, 1,449,793
—, calcium antimony tartrate from, 1,307,860
—, catalyst, benzaldehyde made with, 1,284,887
—, —, benzoic acid made with, 1,284,887
—, —, mfr. of hydrogen, made with, 1,330,772
—, —, mfr. of sulfur trioxide, made with, 1,204,141
—, —, maleic acid made with, 1,318,631
—, —, quinone made with, 1,318,631
—, cement, waterproofing of using, 1,519,285
—, coating composition made with, 1,430,083
—, concrete, waterproofing of using, 1,519,285
—, crucible contg. mfr. of, 1,450,140
—, enamel, opaque, made with, 1,314,831
—, gasolene made with, 1,373,653
—, glass contg., 1,304,623
—, glass made with, 1,449,793; 1,513,923
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, —, ruby, made with, 1,271,652
—, —, strass, made with 1,271,652
—, —, translucent, made with, 1,166,922
—, glaze, opaque, made with, 1,314,831
—, hydrogen, catalyst for the mfr. of, made with, 1,330,772
—, insulator, electric, made with, 1,233,486
—, iron plated with antimony with, 1,397,514
—, isoprene made with, 1,298,929
—, magnesium antimoniate made with, 1,211,564
—, metal, precious, coated with, 1,335,024
—, metal antimoniate made with, 1,211,564
—, mortar, waterproofing of using, 1,519,285
—, paint made with, 1,430,083
—, pigment of, 1,396,914
—, sulfur trioxide, catalyst for the mfr. of, made with, 1,204,141
—, *white; see Antimony trioxide*
—, zinc, electrodeposition of, formation during of, 1,491,498
—, zinc antimoniate made with, 1,211,564

Antimony(ic) oxide, enamel, opaque, made with, 1,239,112
Antimony oxide ore, sulfur dioxide smelter fumes absorbed using, 1,236,236
Antimony oxychloride, airplane dope made with, 1,388,825; 1,388,828
—, asphalt, fireproofing of, using, 1,388,829
—, creosote, fireproofing of, using, 1,388,829
—, fabric, fireproofing of using, 1,388,825; 1,388,828
—, —, waterproofing of using, 1,388,825; 1,388,828
—, fireproofing process using, 1,388,825; 1,388,828; 1,388,829
—, formation of, 1,414,257; 1,414,259
—, pitch, fireproofing of, using, 1,388,829
—, rubber, reclaiming of, using, 1,189,721
—, —, vulcanization of, using, 1,204,374
—, tar, fireproofing of, using, 1,388,829
—, waterproofing process using, 1,388,825; 1,388,828; 1,388,829
Antimony, pentachloride, acetylene, chlorine, action of on, using, 1,418,882
—, acetylene chlorinated in, 1,418,882
—, antimony sulfide from, 1,332,982
—, antimony trichloride made from, 1,475,422
—, catalyst in oil cracking, 1,424,574
—, chlorine, acetylene, action on of, using, 1,418,882
—, *N*-dihydro-1.2.2′.1′-anthraquinoneazine, chlorine derivative made with, 1,317,160
—, dyestuff made with, 1,169,404; 1,200,848; 1,317,160; 1,490,646
—, flavanthrene made with, 1,478,061; 1,490,646
—, flavanthrene antimony pentachloride made with, 1,478,061
—, flavanthrene compound of, 1,478,061
—, mfr. of, antimony for, 1,475,422
—, —, chlorine for, 1,475,422
—, —, process for, 1,475,422
—, nitrobenzene compound of, 1,478,061
—, paint made with, 1,145,186
—, paint, anti-fouling, made with, 1,145,186
—, rustproofing made with, 1,145,186
—, solvent for, oil as, 1,145,186
—, *s*-tetrachlor-ethane made with, 1,418,882
—, *see also Antimony(ic) chloride*
Antimony pentasulfide, caoutchouc composition contg., 1,437,487
—, casein composition made with, 1,437,487
—, coumarone-rubber article made with, 1,248,226
—, decomposition of, 1,414,836; 1,414,837
—, gasket made with, 1,248,226
—, golden antimony sulfuret contg., 1,498,564
—, iron rust-proofing of with, 1,317,351
—, mfr. of, 1,414,836; 1,414,837
—, —, antimony for, 1,498,564
—, —, antimony ore for, 1,498,564
—, —, calcium chloride for, 1,498,564
—, —, calcium thioantimoniate for, 1,502,285
—, —, coal for, 1,498,564
—, —, coal, anthracite, for, 1,498,564
—, —, hydrochloric acid for, 1,502,285
—, —, niter cake for, 1,498,564
—, —, process for, 1,498,564; 1,502,285
—, —, sodium bisulfate for, 1,498,564
Antimony pentasulfide, mfr. of, sodium thioantimoniate for, 1,502,285
—, —, stibnite for, 1,498,564
—, —, sulfur for, 1,498,564
—, —, sulfuric acid for, 1,502,285
—, plastic made with, 1,318,804
—, preparation of gold colored, 1,417,033
—, rubber article made with, 1,248,226
—, rubber coloring agent, 1,414,836; 1,414,837
—, shoe heel made with, 1,318,804
—, shoe sole made with, 1,318,804
—, steel rust-proofing of with, 1,317,351
—, tire made with, 1,200,296
—, tire, inner tube for, made with, 1,492,218
—, tire-healing composition ingredient, 1,434,764
—, *see also Antimony sulfide*
Antimony pentoxide, formation of, 1,435,703
—, glass made with, 1,488,914
—, paint made with, 1,145,186
—, paint, anti-fouling, made with, 1,145,186
—, potassium antimoniate made with, 1,203,409
—, rust-proofing made with, 1,145,186
—, solvent for, oil as, 1,145,186
Antimony perchlorate, pyrotechnic composition ingredient, 1,423,264
Antimony phosphate, enamel opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Antimony phosphide, battery, wet, electrode for of, 1,262,020
—, mfr. of, phosphorus, red, for, 1,262,020
—, preparing 1,338,279
Antimony potassium tartrate, cellulose acetate silk mordanted with, 1,440,501
—, photographic element contg., 1,290,794
—, *see also Potassium antimonyl tartrate*
Antimony regulus, see Antimony
Antimony salts, airplane dope made with, 1,388,824; 1,388,827
—, amylene chlorhydrin made with, 1,315,229
—, asphalt, fireproofing of using, 1,388,829
—, butylene chlorhydrin made with, 1,315,229
—, celluloid, fireproofing of using, 1,388,825
—, cellulose dyed using, 1,375,919
—, chlorhydrin made with, 1,315,229
—, cotton dyed using, 1,375,919
—, cotton mordanted with, 1,375,919
—, creosote, fireproofing of using, 1,388,829
—, dyes developed with, 1,426,299
—, dye mordant, 1,414,029; 1,414,030; 1,414,031
—, ethylene chlorhydrin made with, 1,315,229
—, fabric, fireproofing of using, 1,388,824; 1,388,827
—, —, waterproofing of using, 1,388,824; 1,388,827
—, fiber dyed using, 1,375,919
—, film, motion picture, fireproofing of using, 1,388,825
—, fireproofing process using, 1,388,824; 1,388,827; 1,388,829
—, hemp, imitation weighted with, 1,351,385
—, jute dyed using, 1,375,919
—, moths, compound for protection from made with, 1,480,289
—, pitch, fireproofing of using, 1,388,829

Antimony salts, propylene chlorhydrin made with, 1,315,229
—, silk dyed using, 1,375,919
—, tar, fireproofing of using, 1,388,829
—, textile dyed using, 1,375,919
—, waterproofing process using, 1,388,824; 1,388,827; 1,388,829
—, wool dyed using, 1,375,919
Antimony silicate, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Antimony sodium chloride, antimony sulfide made with, 1,238,307
—, mfr. of, antimony oxide for, 1,238,307
—, —, antimony sulfide for, 1,238,307
—, —, antimony trichloride for, 1,238,307
—, —, antimony trisulfide for, 1,238,307
—, —, hydrochloric acid for, 1,238,307
—, —, potassium chlorate for, 1,238,307
—, —, process for, 1,238,307
—, —, sodium chloride for, 1,238,307
—, —, stibnite for, 1,238,307
—, silk, weighting of, using, 1,238,307
Antimony sulfantimoniate, antimony pentasulfide from, 1,412,438
—, medicinal uses of, 1,412,438
Antimony sulfate, asphalt, fireproofing of using, 1,388,826; 1,388,829
—, basic, production of, alkali carbonate for, 1,185,005
—, —, —, anode slime for, 1,185,005
—, —, —, flue dust for, 1,185,005
—, —, —, process for, 1,185,005
—, —, —, sodium carbonate for, 1,185,005
—, —, —, sulfuric acid for, 1,185,005
—, creosote, fireproofing of using, 1,388,826; 1,388,829
—, fireproofing using, 1,388,826; 1,388,829
—, glass colored red by, 1,344,141
—, pitch, fireproofing of using, 1,388,826; 1,388,829
—, rubber, reclaiming of, using, 1,189,721
—, —, vulcanization of, using, 1,204,374
—, tar, fireproofing of using, 1,388,826; 1,388,829
—, waterproofing using, 1,388,826; 1,388,829
Antimony(ic) sulfate, formation of, 1,435,703
Antimony(ous) sulfate, formation of, 1,435,703
Antimony sulfate ore, gold made with, 1,177,396
—, platinum made with, 1,177,396
—, silver made with, 1,177,396
—, *see also Ore*
Antimony sulfide, alloy made with, 1,138,845
—, antimony made with, 1,243,681
—, antimony, starring of, composition for contg., 1,284,164
—, antimony oxide from, 1,396,914
—, antimony sodium chloride made with, 1,238,307
—, Babbitt metal substitute made with, 1,138,845; 1,217,710; 1,217,711
—, brass substitute made with, 1,138,845
—, bullet, impact illuminating, made with, 1,242,879
—, caoutchouc composition contg., 1,437,487
Antimony sulfide, carbon tetrachloride, sulfur monochloride, separation of from using, 1,260,621
—, casein composition made with, 1,437,487
—, chloridizing, zinc chloride made with, 1,396,740
—, cigar, self-igniting, made with, 1,142,529
—, cigarette, self-igniting, made with, 1,142,529
—, cigarette-lightning composition contg., 1,454,902
—, colloidal, mfr. of, acacia for, 1,412,438
—, —, —, casein for, 1,412,438
—, —, —, egg albumin for, 1,412,438
—, —, —, lysalbuminates for, 1,412,438
—, —, —, process for, 1,412,438
—, —, —, protalbuminates for, 1,412,438
—, —, —, serum albumen for, 1,412,438
—, —, —, sodium lysalbuminate for, 1,412,438
—, —, —, sodium protalbuminate for, 1,412,438
—, —, medicinal uses of, 1,412,438
—, —, preparation of, 1,412,438
—, crimson, vulcanization process using, 1,503,430
—, decomposing with heat, compressed air and alkali acid salt, 1,364,804
—, detonator made with, 1,503,530
—, dissolving, 1,378,485
—, dissolving with heat, compressed air and alkali acid salt, 1,364,804
—, explosive contg., 1,350,465; 1,407,767
—, explosive ingredient, 1,416,121; 1,416,122; 1,416,123
—, finely divided, producing, 1,442,485
—, flash light powder made with, 1,240,027
—, formation of, 1,332,982; 1,434,693
—, *golden, see Antimony pentasulfide*
—, golden colored, mfr. of, 1,417,033
—, gold ore contg., roasting of, apparatus for, 1,283,782
—, —, treating, 1,461,807
—, gunpowder contg., 1,424,204
—, kindling block made with, 1,183,752
—, mfr. of, 1,414,836; 1,414,837; 1,415,127
—, —, ammonium chloride for, 1,261,023
—, —, antimony for, 1,261,023
—, —, antimony sodium chloride for, 1,238,307
—, —, antimony trichloride for, 1,261,023
—, —, chloride for, 1,261,023
—, —, electrolytic process for, 1,261,023
—, —, hydrochloric acid for, 1,238,307
—, —, hydrogen sulfide for, 1,238,307
—, —, process for, 1,238,307; 1,261,023
—, —, sodium chloride for, 1,261,023
—, —, sulfur for, 1,261,023
—, match made with, 1,153,525; 1,206,827
—, match composition contg., 1,387,999
—, match heads contg., 1,329,537
—, primer contg., 1,311,872; 1,447,551; 1,473,818
—, primer made with, 1,174,669; 1,184,316; 1,308,394; 1,416,121; 1,416,122; 1,416,123; 1,495,350
—, primer, explosive, contg., 1,325,928
—, primer for signal fuses contg., 1,430,590
—, priming charge contg., 1,308,393
—, red, coumarone-rubber article made with, 1,248,226
—, —, gasket, made with, 1,248,226

Antimony sulfide, red, rubber article made with, 1,248,226
—, rubber, spongy, made with, 1,156,184
—, rubber-like composition contg., 1,379,150
—, rubber roller composition contg., 1,344,631
—, rubber substitute made with, 1,471,059
—, rubber vulcanizing, use of for, 1,415,127
—, separation of, 1,377,217
—, silver ore contg., roasting of, apparatus for, 1,283,782
—, surfaces ornamented by, 1,337,380
—, target made with, 1,145,585
—, tires retreaded by aid of, 1,409,418
—, transposing with heat, compressed air and alkali acid salt, 1,364,804
—, treatment of hydrochloric acid for, 1,378,485
—, —, nitric acid for, 1,378,485
—, —, process for, 1,378,485
—, —, sulfuric acid for, 1,378,485
—, *see also Antimony pentasulfide; Antimony trisulfide*
Antimony(ic) sulfide, battery, electric, contg., 1,316,760
—, colloidal, mfr. of alcohol, denatured, for, 1,412,438
—, —, —, hydrochloric acid for, 1,412,438
—, —, —, process for, 1,412,438
—, —, —, sodium hydroxide for, 1,412,438
—, —, —, sodium protalbuminate for, 1,412,438
—, —, —, sodium thioantimonate for, 1,412,438
—, —, —, sulfuric acid for, 1,412,438
—, *see also Antimony pentasulfide*
Antimony(ous) sulfide, battery, electric, contg., 1,316,760
—, colloidal, mfr. of, potassium antimonyl tartrate for, 1,412,438
—, —, —, process for, 1,412,438
—, —, —, sodium hydroxide for, 1,412,438
—, —, —, sodium protalbuminate for, 1,412,438
—, —, —, sodium sulfide for, 1,412,438
—, —, —, sulfuric acid for, 1,412,438
—, polish contg., 1,295,584
Antimony sulfide, medicinal use of, 1,412,438
Antimony sulfide ore, gold made with, 1,177,396
—, platinum made with, 1,177,396
—, silver made with, 1,177,396
—, sulfur dioxide smelter fumes absorbed using, 1,236,236
—, *see also Stephanite; Stibnite*
Antimony sulphuret, see Antimony penta sulfide
Antimony sulfuret, see Antimony pentasulfide
Antimony tannate, moths, compound for protection from made with, 1,480,289
Antimony tartrate, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, nickel etching of, electrolyte, contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, steel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Antimony telluride, rubber, reclaimed, treatment of with, 1,269,168
—, rubber, sulfur in, treatment of with, 1,269,168
—, —, treatment of with, 1,269,168
Antimony tetroxide, antimony, starring of, composition for contg., 1,284,164
—, enameling frit contg., 1,360,317; 1,360,318
Antimony titanate, treatment of, hydrochloric acid for, 1,378,485
—, —, nitric acid for, 1,378,485
—, —, process for, 1,378,485
—, —, sulfuric acid for, 1,378,485
Antimony trichloride, acetone as solvent of, 1,451,313
—, airplane dope made with, 1,388,824; 1,388,825; 1,388,827; 1,388,828
—, amyl acetate as solvent of, 1,451,313
—, antimony sodium chloride made with, 1,238,307
—, antimony sulfide made with, 1,261,023
—, asphalt, fireproofing of using, 1,388,826; 1,388,829
—, button "bark," pearl, whitened with, 1,312,723
—, catalyst, oil cracking contg., 1,424,574
—, —, sulfur dioxide made with, 1,125,114
—, —, thionyl chloride made with, 1,125,114
—, celluloid, fireproofing of using, 1,388,825
—, celluloid inflammability reduced by, 1,451,313
—, cellulose acetate inflammability reduced by 1,451,313
—, cellulose nitrate inflammability reduced by 1,451,313
—, chromyl chloride, action of on, 1,145,186
—, cleaner made with, 1,317,171; 1,342,862
—, creosote, fireproofing of using, 1,388,826; 1,388,829
—, ethyl acetate as solvent of, 1,451,313
—, fabric, fireproofing of using, 1,388,824; 1,388,825; 1,388,827; 1,388,828
—, —, waterproofing of using, 1,388,824; 1,388,825; 1,388,827; 1,388,828
—, film, motion picture, fireproofing of using, 1,388,825
—, fireproofing with, 1,388,824; 1,388,825; 1,388,826; 1,388,827; 1,388,828; 1,388,829; 1,418,609; 1,418,610
—, fireproofing process using, 1,388,824; 1,388,825; 1,388,827; 1,388,828
—, formation of, 1,427,765
—, furniture polish contg., 1,396,346; 1,438,118
—, galvanized iron colored with, 1,436,729
—, gas, hydrogen sulfide, determination of in, using, 1,512,893
—, gasolene purified with, 1,277,329
—, hydrogen sulfide, determination of, in using, 1,512,893
—, —, illuminating gas, determination of in using, 1,512,893
—, illuminating gas, hydrogen sulfide, determination of in, using, 1,512,893
—, kerosene purified with, 1,277,329
—, lubricating oil purified with, 1,277,329
—, mfr. of, 1,425,565
—, —, antimony for, 1,384,918

Antimony trichloride, mfr. of, antimony pentachloride for, 1,475,422
—, —, antimony trisulfide for, 1,238,307
—, —, apparatus for, 1,384,918
—, —, chlorine for, 1,384,918; 1,475,422
—, —, chlorine and antimony for, 1,384,918
—, —, hydrochloric acid for, 1,238,307
—, —, process for, 1,238,307; 1,384,918; 1,475,422
—, —, stibnite for, 1,238,307
—, medicinal oil purified with, 1,277,329
—, oils fireproofed with, 1,388,828
—, paint made with, 1,145,186
—, paint, anti-fouling, made with, 1,145,186
—, paraffin purified with, 1,277,329
—, pitch, fireproofing of using, 1,388,826; 1,388,829
—, polish contg., 1,314,482; 1,317,171; 1,400,826; 1,411,550
—, polish made with, 1,342,862; 1,356,075
—, polishing composition contg., 1,356,075; 1,342,862
—, rust-proofing made with, 1,145,186
—, silk, weighting of, using, 1,238,307
—, solvent for, 1,388,824; 1,388,825; 1,388,826; 1,388,827; 1,388,828; 1,388,829
—, —, alcohol as, 1,418,609
—, —, amyl acetate as, 1,388,825; 1,418,609
—, —, benzene as, 1,418,610
—, —, carbon bisulfide as, 1,418,609
—, —, carbon chlorides as, 1,418,609
—, —, carbon tetrachloride as, 1,388,824; 1,388,825; 1,388,826; 1,388,827; 1,388,828; 1,388,829; 1,418,609
—, —, chloroform as, 1,388,824; 1,388,825; 1,388,826; 1,388,827; 1,388,828; 1,388,829
—, —, creosote as, 1,418,609
—, tar, fireproofing of using, 1,388,826; 1,388,829
—, waterproofing process using, 1,388,824; 1,388,825; 1,388,826; 1,388,827; 1,388,828; 1,388,829
—, wood impregnated with, 1,418,609; 1,418,610
—, *see also Antimony(ous) chloride*
Antimony triiodide, airplane dope made with, 1,388,824; 1,388,827
—, fabric, fireproofing of using, 1,388,824; 1,388,827
—, —, waterproofing of using, 1,388,824; 1,388,827
—, fireproofing process using, 1,388,824; 1,388,827
—, solvent for, carbon bisulfide as, 1,388,824
—, waterproofing process using, 1,388,824; 1,388,827
Antimony trioxide, *p*-acetylamino-phenyl-stibnic acid made with, 1,260,707
—, *p*-acetylamino-phenyl-stibnic acid, alkali salt of, made with, 1,260,707
—, —, sodium salt of, made with, 1,260,707
—, alloy made with, 1,221,873
—, antimony, starring of, composition for contg., 1,284,164
—, bag house dust contg., 1,194,438
—, battery, alkaline electrolyte, contg., 1,303,453
—, copper alloy made with, 1,221,873
—, copper alloy, uranium in, made with, 1,221,873
Antimony trioxide, copper alloy, vanadium in made with, 1,221,873
—, enameling frit contg., 1,360,317; 1,360,318
—, ferro-alloy made with, 1,221,873
—, formation of, 1,427,765
—, glass contg., 1,513,923
—, glass made with, 1,192,474
—, *p*-hydroxyphenyl-stibnic acid made with, 1,260,707
—, *p*-hydroxyphenyl-stibnic acid, alkali salt of, made with, 1,260,707
—, —, ammonium salt of, made with, 1,260,707
—, iron alloy made with, 1,221,873
—, iron alloy, uranium in made with, 1,221,873
—, —, vanadium in made with, 1,221,873
—, mfr. of, air for, 1,504,685
—, —, antimony for, 1,504,685
—, —, apparatus for, 1,504,685
—, —, oxygen for, 1,504,685
—, —, process for, 1,194,438; 1,504,685
—, phenyl-stibnic acid made with, 1,260,707
—, phenyl-stibnic acid, sodium salt of, made with, 1,260,707
—, phenyl-stibnic oxychloride made with, 1,260,707
—, pigment, 1,504,685
—, steel, tool made with, 1,221,873
—, uranium, copper alloy contg., made with, 1,221,873
—, uranium, iron alloy contg., made with, 1,221,873
—, vanadium, copper alloy contg., made with, 1,221,873
—, —, iron alloy contg., made with, 1,221,873
Antimony trisulfide, antimony made from, 1,475,294
—, antimony pentasulfide from, 1,414,836; 1,414,837; 1,417,033
—, antimony sodium chloride made with, 1,238,307
—, antimony trichloride made with, 1,238,307
—, blasting cartridge made with, 1,493,921
—, caoutchouc composition contg., 1,437,487
—, casein composition made with, 1,437,487
—, *crude, see Stibnite*
—, sulfur, sublimed, made from, 1,475,294
—, *see also Antimony sulfide; Stibnite*
Antimony xanthate, flotation process using, 1,512,139
Antineuritic vitamine, see Vitamine, antineuritic
Antineuraglic, compound, $C_{21}H_{19}O_4N_3$, as, 1,151,885
—, —, $C_{16}H_{17}O_4N_3$, as, 1,151,885
—, —, $C_{17}H_{19}O_4N_3$, as, 1,151,885
Antiparasitic, Tephrosia for, 1,242,954; 1,242,955
Antiphlogistic, mfr. of, atophan for, 1,213,464; Re-15,127
—, —, cinchona alkaloid for, 1,213,464; Re-15,127
—, —, process for, 1,213,464; Re-15,127
—, —, quinine for, 1,213,464; Re-15,127
Antipneumococcic serum Type I, bacterial antibody serum made with, 1,484,038
Antipneumococcic serum Type II, bacterial antibody serum made with, 1,484,038

Antipneumococcic serum type III, bacterial antibody serum made with, 1,484,038
Antipyretic, compound, $C_{16}H_{17}O_4N_3$, as, 1,151,885
—, —, $C_{17}H_{19}O_4N_3$, as, 1,151,885
—, —, $C_{21}H_{19}O_4N_3$, as, 1,151,885
—, 2.3-diacetyl-*o*-pyrocatechuic acid as, 1,140,716
—, mfr. of, acetanilide for, 1,235,278
—, —, atophan for, 1,213,464; Re-15,127
—, —, caffein for, 1,235,278
—, —, cinchona alkaloid for, 1,213,464; Re-15,127
—, —, citric acid for, 1,235,278
—, —, process for, 1,159,403; 1,213,464; Re-15,127; 1,235,278
—, —, quinine for, 1,213,464; Re-15,127
—, —, sodium hydroxide for, 1,213,464; Re-15,127
—, *o*-sulfamido-benzoyl-*p*-phenetidine as, 1,153,121
Antipyrine, cellulose nitrate gelatinized using, 1,439,505
—, cellulose nitrate solvent contg., 1,439,505
—, cellulose nitrate stabilized using, 1,439,505
—, smokeless powder coated with, 1,432,322
—, vulcanization process using, 1,440,176
—, *see also Phenyldimethylpyrazolone*
Antipyrin iodide, see Iodopyrine
Antipyrin carbolate, see Phenopyrine
Antipyrin mandelate, see Tussol
Antipyrin phenylglycolate, see Tussol
Antipyrin salicylate see Salipyrin
Antique leather, see Leather, antique
Antirust composition, see Rust, preventing, composition for
Antiscorbutic vitamine. see Vitamine. antiscorbutic
Antiseparation element, ink containing, 1,439,356
Antiseptic, acriflavin as, 1,382,715
—, adhesive made with, 1,257,307
—, alkali(mono)borate as, 1,336,272
—, alkali halide in, 1,255,335
—, ammonium halide in, 1,255,335
—, applying carbon dioxide for generating pressure for, 1,378,481
—, bismuth oxyiodide, 5-brom-6-hydroxyquinoline, compound of and as, 1,129,865
—, —, 5-brom-8-hydroxyquinoline, compound of and as, 1,129,865
—, —, 5.7-dibrom-8-hydroxyquinoline, compound of and as, 1,129,865
—, —, hydroxyquinoline, derivatives of, compound of and as, 1,129,865
—, —, 6-hydroquinoline, compound of and as, 1,129,865
—, —, 7-hydroxyquinoline, compound of and as, 1,129,865
—, —, 8-hydroxyquinoline, compound of and as, 1,129,865
—, —, 7-iodo-5-methyl-8-hydroxyquinoline, compound of and as, 1,129,865
—, bismuth 8-quinolinolate as, 1,485,380
—, boric acid in, 1,275,162
—, boric acid and iodine as, 1,329,148
—, brilliant green as, 1,382,715
—, 5-brom-6-hydroxyquinoline, bismuth oxyiodide, compound of and as, 1,129,865
—, 5-brom-8-hydroxyquinoline, bismuth oxyiodide, compound of and as, 1,129,865
Antiseptic, calcium hypochlorite in, 1,358,227
—, catgut ligature, sterilization of, using, 1,495,180
—, 6-chlor-3-hydroxy-1-methyl-4-benzoic acid as, 1,144,270
—, chloroform as, 1,129,321
—, 4-chlor-*m*-tolyl acetate as, 1,498,641
—, 4-chlor-*m*-tolyl cinnamate as, 1,498,641
—, 4-chlor-*m*-tolyl formate as, 1,498,641
—, 4-chlor-*m*-tolyl oxalate as, 1,498,641
—, 4-chlor-*m*-tolyl phenyl-propionate as, 1,498,641
—, 4-chlor-*m*-tolyl propionate as, 1,498,641
—, 4-chlor-*m*-tolyl *a*-toluate as, 1,498,641
—, collodion in, 1,275,162
—, crystal violet as, 1,382,715
—, dentifrice made with, 1,275,779
—, 5.7-dibrom-8-hydroxy-quinoline, bismuth oxyiodide, compound of and, as, 1,129,865
—, disodium phosphate in, 1,297,735
—, dyestuff as, 1,382,715
—, eucalyptol as, 1,471,987
—, formaldehyde as, 1,129,321
—, formaldehyde-sulfurous acid as, 1,399,007
—, formula, picric acid, potassium chlorate, tincture iodine, calcium hypochlorite, sodium bicarbonate, glycerol, 1,358,227
—, —, sodium perborate 50, sodium bicarbonate 40, disodium phosphate 10, 1,297,735
—, gentian violet as, 1,382,715
—, gingivitis treated with compound contg., 1,469,322
—, glue, vegetable, made with, 1,257,307
—, glycerol in, 1,275,162
—, hydrogen peroxide, defects of, 1,297,735
—, hydroxyquinoline, derivatives of, bismuth oxyiodide, compound of and as, 1,129,865
—, 6-hydroxyquinoline, bismuth oxyiodide, compound of and as, 1,129,865
—, 7-hydroxyquinoline, bismuth oxyiodide, compound of and, 1,129,865
—, 8-hydroxyquinoline, bismuth oxyiodide, compound of and as, 1,129,865
—, ink, printing (on selvage of cloth) made with, 1,162,027
—, iodine as, 1,358,227; 1,382,715
—, iodine and boric acid as, 1,329,148
—, 7-iodo-5-methyl-8-hydroxyquinoline, bismuth oxyiodide, compound of and as, 1,129,865
—, magnesium peroxide, defects of, 1,297,735
—, mfr. of, acetone for, 1,145,634
—, —, albumen, egg, for, 1,145,634
—, —, —, horse serum, for, 1,145,634
—, —, alcohol for, 1,145,634; 1,425,882; 1,425,883; 1,425,884
—, —, alkali bicarbonate for, 1,493,564
—, —, alkali carbonate for, 1,145,634; 1,493,564
—, —, alkali halide for, 1,255,335
—, —, alkali hydroxide for, 1,145,634
—, —, alkali sesquicarbonate for, 1,493,564
—, —, alkali thiocarbonate for, 1,145,634
—, —, ammonia for, 1,226,394
—, —, ammonium chloride for, 1,276,119
—, —, ammonium halide for, 1,255,335
—, —, ammonium hydroxide for, 1,145,634; 1,226,394

Antiseptic, mfr. of, ammonium nitrate for, 1,276,119
—, —, apparatus for, 1,425,882; 1,425,883; 1,425,884
—, —, arsenic compound for, 1,205,924
—, —, benzene for, 1,425,882; 1,425,883; 1,425,884
—, —, bicarbonate for, 1,493,564
—, —, bile acids, sodium salt of, for, 1,483,152
—, —, bismuth oxyiodide for, 1,150,654
—, —, bone char for, 1,425,882; 1,425,883; 1,425,884
—, —, borax for, 1,493,564
—, —, boric acid for, 1,493,564
—, —, bromine for, 1,183,055
—, —, calcium hydroxide for, 1,145,634
—, —, carbonate for, 1,493,564
—, —, carbon bisulfide for, 1,145,634; 1,425,882; 1,425,883; 1,425,884
—, —, carbon oxysulfide for, 1,145,634
—, —, casein for, 1,145,634
—, —, clove oil for, 1,483,152
—, —, coal tar for, 1,205,924
—, —, coal tar oil for, 1,205,924
—, —, copper ammonium acetate for, 1,145,634
—, —, copper ammonium sulfate for, 1,145,634
—, —, copper compound for, 1,205,924
—, —, cresols for, 1,205,924
—, —, dextrin for, 1,276,119
—, —, ether for, 1,139,774; 1,145,634; 1,425,882; 1,425,883; 1,425,884
—, —, ethyl alcohol for, 1,145,634; 1,226,394
—, —, fibrin for, 1,145,634
—, —, formaldehyde for, 1,399,007
—, —, formaldehyde and sulfur dioxide for, 1,399,007
—, —, fullers earth for, 1,425,882; 1,425,883; 1,425,884
—, —, gallocarboxylic acid for, 1,150,654
—, —, gallocarboxylic acid, bismuth salt of, for, 1,150,654
—, —, glue for, 1,145,634
—, —, glycerol for, 1,183,055
—, —, hexamethylenetetramine for, 1,226,394
—, —, hydrocarbon, paraffin, for, 1,139,774
—, —, hydrogen dioxide for, 1,139,774
—, —, hydroiodic acid for, 1,150,654
—, —, hydroxy-anthracene for, 1,205,924
—, —, iodine for, 1,226,394
—, —, iron for, 1,145,634
—, —, keratin for, 1,145,634
—, —, lead compound for, 1,205,924
—, —, lubricating oil for, 1,425,882; 1,425,883; 1,425,884
—, —, mercury for, 1,145,634
—, —, mercury compound for, 1,205,924
—, —, mercury potassium iodide for, 1,145,634
—, —, mercury(ic) iodide for, 1,493,564
—, —, mercury(ic) potassium iodide, $KHgI_3$, for, 1,493,564
—, —, mercury(ic) potassium iodide, K_2HgI_2, for, 1,493,564
—, —, myosin for, 1,145,634
—, —, naphthols for, 1,205,924
—, —, 2-naphthol for, 1,205,924
—, —, oil, mineral, for, 1,425,882; 1,425,883; 1,425,884
Antiseptic, mfr. of, paraffin for, 1,139,774
—, —, peptone for, 1,145,634
—, —, peptone, Witte's, for, 1,145,634
—, —, petroleum for, 1,425,882; 1,425,883; 1,425,884
—, —, phenol for, 1,205,924
—, —, potassium chlorate for, 1,276,119
—, —, potassium hydroxide for, 1,145,634
—, —, potassium iodide for, 1,226,394; 1,255,335; 1,276,119; 1,493,564
—, —, potassium mercuric iodide for, 1,276,119
—, —, process for, 1,139,774; 1,145,634; 1,150,654; 1,183,055; 1,205,924; 1,226,394; 1,297,735; 1,399,007; 1,425,882; 1,425,883; 1,425,884; 1,483,152; 1,493,564
—, —, proteid for, 1,145,634
—, —, rock candy for, 1,183,055
—, —, sesquicarbonate for, 1,493,564
—, —, silver chloride for, 1,145,634
—, —, silver compound for, 1,205,924
—, —, sludge sulfonic acid for, 1,425,882; 1,425,883; 1,425,884
—, —, sodium bicarbonate for, 1,276,119; 1,493,564
—, —, sodium carbonate for, 1,493,564
—, —, sodium chloride for, 1,255,335; 1,276,119
—, —, sodium glycoholate for, 1,483,152
—, —, sodium hydroxide for, 1,145,634; 1,205,924; 1,425,882; 1,425,883; 1,425,884
—, —, sodium iodide for, 1,493,564
—, —, sodium sesquicarbonate for, 1,493,564
—, —, sulfur dioxide for, 1,399,007
—, —, sulfuric acid for, 1,425,882; 1,425,883; 1,425,884
—, —, tannic acid for, 1,183,055
—, —, tannin for, 1,183,055
—, —, tar for, 1,205,924
—, —, tar oil for, 1,205,924
—, —, tar oil, chlorinated, for, 1,205,924
—, —, —, nitrated, for, 1,205,924
—, —, tetra-iodo-hexamethylenetetramine for, 1,255,335
—, —, thyme oil for, 1,483,152
—, —, tourquine blue for, 1,276,119
—, —, trihydroxybenzoic acid for, 1,183,055
—, —, xylenol for, 1,205,924
—, —, zinc chloride for, 1,205,924
—, menthol as, 1,471,987
—, mercurochrome 220 as, 1,382,715
—, mercury(ic) iodide as, 1,493,564
—, mercury(ic) potassium iodide as, 1,493,564
—, perborates, defects of, 1,297,735
—, phenol as, 1,129,321
—, picric acid in, 1,358,227
—, potassium chlorate in, 1,358,227
—, potassium iodide in, 1,255,335
—, proflavin as, 1,382,715
—, sodium hydroxide, sulfur, compound of and as, 1,132,476
—, sulfur, sodium hydroxide, compound of and as, 1,132,476
—, surgical ligature, sterilization of, using, 1,495,180
—, sodium bicarbonate in, 1,297,735; 1,358,227
—, sodium chloride in, 1,255,335
—, sodium fluoride as, 1,129,321

Antiseptic, sodium perborate in, 1,297,735
—, sodium peroxide, defects of, 1,297,735
—, talcum powder in, 1,275,162
—, tetra-iodo-hexamethylenetetramine in, 1,255,335; 1,275,162
—, thymol as, 1,129,321; 1,471,987
—, toluene as, 1,129,321
—, unguentum in, 1,275,162
—, vaseline in, 1,275,162
—, *see also Antiparasitic; Disinfectant; Fungicide; Germicide*
Antiseptic dressing, mfr. of, alcohol for, 1,177,014; 1,177,015
—, —, carbon bisulfide for, 1,177,014; 1,177,015
—, —, carbon tetrachloride for, 1,177,014; 1,177,015
—, —, chloroform for, 1,177,014; 1,177,015
—, —, ethyl ether for, 1,177,014; 1,177,015
—, —, iodine for, 1,177,014; 1,177,015
—, —, lycopodium powder for, 1,177,014; 1,177,015
—, —, process for, 1,177,014; 1,177,015
Antiseptic pencil, see Pencil, antiseptic
Antislip composition, see Belt dressing; Pulley covering
Antispasmodic, alkali benzyl citrates as, 1,485,377
—, alkali benzyl malonates as, 1,485,377
—, alkali benzyl phosphates as, 1,485,377
—, alkali benzyl phthalate as, 1,485,377; 1,485,378
—, alkali benzyl succinate as, 1,485,377; 1,485,379
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—, —, sugar for, 1,472,974
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—, —, manganese chloride for, 1,441,063
—, —, potassium chloride for, 1,441,063
—, —, process for, 1,441,063
—, —, sodium chloride for, 1,441,063
—, —, zinc chloride for, 1,441,063
—, *see also Silver sulfide ore; Silver ore; Sulfide ore*
Argil, alkali aluminum fluoride made with, 1,517,686
—, aluminum potassium fluoride made with, 1,517,686
—, aluminum sodium fluoride made with, 1,517,686
—, *see also Clay, potter's*
Argillaceous material, cement made with, 1,504,701
—, potassium compound made with, 1,504,701
—, refractory mfr. with, 1,365,336
Argilliferous material, see Argillaceous; Clay
Argilla Ferruginea, see Bole Armenian
Argol, corn oil made with, 1,161,481
Argol, flotation process using, 1,234,288
—, oat oil made with, 1,161,481
—, oil, vegetable, made with, 1,161,481
—, pea oil made with, 1,161,481
—, potassium bitartrate made with, 1,135,216
—, pulse oil made with, 1,161,481
—, sea salt contg., 1,161,481
—, soya bean oil made with, 1,161,481
Argole blue 2 G, silk dyed with, 1,446,860
Argols fiber, carbon, decolorizing, made from, 1,135,216
Argols, see also Potassium bitartrate; Tartar
Argon, absorbing, charcoal for, 1,381,474
—, air constituent, 1,218,584
—, aluminum, melting of, using, 1,514,151
—, atmosphere for diver composed of oxygen and, 1,473,337
—, carbon oxides removed from, process for, 1,232,836
—, electric arc device made with, 1,208,597

Argon, electric lamp contg., 1,401,510
—, electron-discharge apparatus made with, 1,244,217
—, explosive shell contg., 1,438,399
—, gas, di-atomic, separation of from, 1,478,036
—, hydrogen, removal of from, calcium for, 1,208,597
—, —, —, magnesium for, 1,208,597
—, —, —, phosphorous pentoxide for, 1,208,597
—, —, —, process for, 1,208,597; 1,323,836
—, lamp, electric, made with, 1,194,643
—, —, —, cleaning of, using, 1,237,653
—, —, —, incandescent, made with, 1,188,186
—, —, —, tungsten filament, made with, 1,180,159
—, —, gaseous conduction, made with, 1,517,466
—, —, incandescent, made with, 1,154,514
—, —, mercury vapor, made with, 1,244,121
—, —, metal vapor, made with, 1,244,121
—, liquefying, 1,426,451
—, mercury vapor lamp contg., 1,398,545
—, metal extracted in atmosphere of, 1,433,541
—, metal production with, 1,415,516
—, nitric acid mfr. affected by, 1,462,987
—, nitrogen, removal of from, calcium for, 1,208,597
—, —, —, magnesium for, 1,208,597
—, —, —, phosphorus pentoxide for, 1,208,597
—, —, —, process for, 1,208,597
—, —, separation from of, 1,211,285; 1,478,036; 1,512,268; 1,513,116
—, —, —, apparatus for, 1,501,415
—, —, —, process for, 1,501,415
—, —, separating, 1,403,723
—, nitrogen diluent, 1,304,932
—, nitrogen removed from, process for, 1,323,836
—, oxygen, atmosphere of and, 1,473,337
—, —, separation from of, 1,211,125; 1,512,268; 1,513,116
—, —, —, apparatus for, 1,257,470, 1,501,415
—, —, —, process for, 1,501,415
—, oxygen and, separating, 1,403,723
—, oxygen removal from, process for, 1,323,836
—, photo-electric cell contg., 1,381,474
—, photo-electric cell made with, 1,376,605; 1,376,606
—, production of air for, 1,211,125; 1,360,853
—, —, air, liquid, for, 1,257,470; 1,501,415
—, —, apparatus for, 1,211,125; 1,501,415; 1,512,268
—, —, process for, 1,211,125; 1,501,415; 1,512,268
—, purification of, barium for, 1,478,036
—, —, calcium for, 1,323,836; 1,478,036
—, —, magnesium for, 1,323,836; 1,478,036
—, —, potassium for, 1,323,836
—, —, process for, 1,478,036
—, —, sodium for, 1,323,836
—, —, strontium for, 1,478,036
—, —, thorium for, 1,323,836
—, —, zirconium for, 1,323,836
—, purifying, 1,426,461
—, —, calcium for, 1,381,474
—, recovery from air, 1,420,802
—, rectifier, electric, made with, 1,208,597; 1,266,517
Argon, rectifier, incandescent cathode, made with, 1,246,054; 1,267,199
—, relay, electric gas type, made with, 1,513,561
—, selenium bridge made with, 1,456,532
—, selenium crystals made with, 1,456,532
—, separation from air, 1,426,461
—, ultra-violet light made using, 1,186,993
—, water vapor, removal of from, calcium for, 1,208,597
—, —, —, magnesium for, 1,208,597
—, —, —, phosphorous pentoxide for, 1,208,597
—, —, —, process for, 1,208,597
—, —, removed from, process for, 1,323,836
—, —, separation of from, 1,478,036
Argo oil, see Corn oil
Argyrol, therapeutic product made with, 1,513,298
Arisaema triphyllum extractive, mercury bichloride tablet made with, 1,204,794
—, poison tablet made with, 1,204,794
Arisaema triphyllum oleo-resin, mercury bichloride tablet made with, 1,204,794
—, poison tablet made with, 1,204,794
Arisaema triphyllum, see also Arum
Arkady, bread made with, 1,502,888
Armenian Bole, see Indian Red; Iron(ic) oxide
Armor, see also Bullet impending material
Armoraciae radix, see Horseradish
Armor plate, case hardening, 1,457,101; 1,457,102; 1,457,103
—, case hardening of, apparatus for, 1,195,459
—, —, process for, 1,195,459
—, *cementation of, see Armor plate, case hardening of*
—, mfr. of, 1,457,101; 1,457,102; 1,457,103
—, —, apparatus for, 1,172,747
—, —, iron, Swedish, for, 1,186,172
—, —, nickel-chrome steel for, 1,470,813
—, —, process for, 1,172,747; 1,186,172; 1,470,813
—, —, steel, mild, for, 1,186,172
—, *see also Steel, armor plate*
Army biscuit, mfr. of, 1,293,772
Army worm, insecticide for destroying, 1,324,848
Arnotto, see Annatto
Aromatic amine, leather, artificial, made with, 1,140,174
—, oil cloth, imitation, made with, 1,140,174
—, *see also Amines, aromatic*
Aromatic derivatives, mfr. of, see mono-Menthyl xylenesulfonamide
Aromatic esters, celluloid made with, 1,468,820
—, fabric, water-proof made with, 1,468,820
—, flexible material made with, 1,468,820
Aromatic nitro compounds, purification of, alkaline sulfites for, 1,297,524
Aromatic substances, oxidized, see Benzoic acid, mfr. of
Aromatic sulfonic acid, mfr. of, apparatus for, 1,300,227; 1,300,228
—, —, hydrocarbon for, 1,300,227; 1,300,228
—, —, process for, 1,300,227; 1,300,228
—, —, sulfuric acid for, 1,300,227; 1,300,228
—, —, sulfur trioxide for, 1,300,227; 1,300,228
Arrester, lightning, see Lightning arrester

Arrowroot, Bermuda, food product made with, 1,155,743
—, —, paper, photographic, made with, 1,126,872
—, bread made with, 1,215,995
—, coffee substitute made with, 1,189,125; 1,189,126; 1,189,131; 1,189,132
—, coffee substitute extract made with, 1,163,759; 1,165,415; 1,177,037; 1,198,393; 1,199,387; 1,204,032; 1,204,358
—, curcuma starch, binder contg., 1,318,106
—, —, calcimine, binder for contg., 1,318,106
—, —, oil, emulsifier for, contg., 1,318,106
—, —, glue contg., 1,318,106
—, —, size contg., 1,318,106
—, food product made with, 1,215,995
—, natal starch, binder contg., 1,318,106
—, —, calcimine, binder for contg., 1,318,106
—, —, oil, emulsifier for contg., 1,318,106
—, —, glue contg., 1,318,106
—, —, size contg., 1,318,106
—, roasted, cattle food made with, 1,267,081
—, —, dextrin made with, 1,267,081
—, —, ethyl alcohol made with, 1,267,081
—, —, maltose made with, 1,267,081
—, tacca starch, binder contg., 1,318,106
—, —, calcimine, binder for contg., 1,318,106
—, —, glue contg., 1,318,106
—, —, oil, emulsifier for contg., 1,318,106
—, —, size contg., 1,318,106
—, *see also Maranta*
Arrowroot flour, hide, tanning of using, 1,288,458
—, *see also Starch*
Arrowroot starch, acetic acid made with, 1,214,518
—, ale made with, 1,214,518
—, battery, dry, made with, 1,370,054; 1,370,055; 1,370,056
—, beer made with, 1,214,518
—, beverage made with, 1,214,518
—, binder contg., 1,318,106
—, calcimine, binder for contg., 1,318,106
—, glue contg., 1,318,106
—, lactic acid made with, 1,214,518
—, malt substitute made with, 1,214,518
—, oil, emulsifier for contg., 1,318,106
—, porter made with, 1,214,518
—, saké made with, 1,214,518
—, size contg., 1,318,106
—, vinegar made with, 1,214,518
Arsanilic acid, arsenic compound made with, 1,501,894
Arsanilic acid, *N*-(*p*-arsonophenyl) glycinamide made with, 1,280,119; 1,280,124
—, *N*-(*p*-arsonophenyl) glycinanilide made with, 1,280,121; 1,280,126
—, *N*-(*p*-arsonophenyl) glycine-methylureide made with, 1,280,120; 1,280,125
—, *N*-(*p*-arsonophenyl) glycinureide made with, 1,280,120; 1,280,125
—, *n*-(*p*-arsonophenyl) glycyl-*m*′-aminophenol made with, 1,280,121
—, *N*-(*p*-arsonophenyl) glycl-*m*′-aminophenol, sodium salt of, made with, 1,280,126
—, *N*-(*p*-arsonophenyl)-*a*-phenylglycinamide made with, 1,280,119; 1,280,124
—, *N*-(*p*-arsonophenyl)-*a*-phenyl-glycinureide made with, 1,280,120; 1,280,125
Arsanilic acid, 4-hydroxy-3-nitro-benzenearsonic acid made with, 1,232,373
—, *p*-(5′-keto-3′-methyl-1′-pyrazolyl)-benzene-arsonic acid made with, 1,507,694
—, mfr. of, 1,405,228
—, pyruvic acid, anisaldehyde, compound of and with, 1,501,894
—, —, benzaldehyde, compound of and with, 1,501,894
—, —, *p*-brom-benzaldehyde, compound of and with, 1,501,894
—, —, *p*-chlor-benzaldehyde, compound of and with, 1,501,894
—, —, cinnamaldehyde, compound of and with, 1,501,894
—, —, *o*-methoxy-benzaldehyde, compound of and with, 1,501,894
—, —, *o*-nitro-benzaldehyde, compound of and with, 1,501,894
—, —, piperonal, compound of and with, 1,501,894
—, *secondary, see Di-p-aminophenylarsinic acid*
—, trypanocidal compound made with, 1,501,894
—, *see also Bis(p-aminophenyl)-arsinic acid*
o-Arsanilic acid, arsenic compound made with, 1,501,894
—, trypanocidal compound made with, 1,501,894
Arsenate, alkali oxalate made with, 1,281,117
—, butylene chlorhydrin made with, 1,253,617
—, butylene glycol made with, 1,253,617; 1,308,796; 1,308,797
—, butylene oxide made with, 1,253,617
—, butylene oxidized by, 1,308,796; 1,308,797
—, chlorhydrin made with, 1,308,796; 1,308,797
—, ethylene chlorhydrin made with, 1,253,617; 1,308,796; 1,308,797
—, ethlene glycol made with, 1,253,617
—, ethelene oxide made with, 1,253,617; 1,308,796; 1,308,797
—, ethylene oxidized by, 1,308,796; 1,308,197
—, explosive contg., 1,464,667
—, explosives, explosion temperature of reduced with, 1,464,667
—, flotation of, 1,467,354
—, —, minerals with, 1,425,185
—, glass made with, 1,488,914; 1,488,915
—, glycol made with, 1,308,796; 1,308,797
—, glycol esters made with, 1,308,796; 1,308,797
—, glycol ethers made with, 1,308,796; 1,308,797
—, olefin chlorhydrin made with, 1,253,617
—, olefin glycol made with, 1,253,617; 1,308,796; 1,308,797
—, olefin oxide made with, 1,253,617
—, olefin oxidized by, 1,308,796; 1,308,797
—, production of, air for, 1,150,787
—, —, ammonium hydroxide for, 1,150,787
—, —, arsenide ores for, 1,150,787
—, —, calcium carbonate for, 1,150,787
—, —, calcium fluoride for, 1,150,787
—, —, calcium oxide, ores contg., for, 1,150,787
—, —, carbonate ores for, 1,150,787
—, —, carbon dioxide for, 1,150,787
—, —, copper oxide, ores contg., for, 1,150,787
—, —, copper sulfide, ores contg., for, 1,150,787
—, —, hydrochloric acid for, 1,150,787
—, —, hydrofluoric acid for, 1,150,787
—, —, hydrogen sulfide for, 1,150,787

Arsenate, production of, iron sulfide, ores contg., for, 1,150,787
—, —, magnesium hydroxide, ores contg., for, 1,150,787
—, —, mattes for, 1,150,787
—, —, mineral for, 1,150,787
—, —, nickel hydroxide, ores contg., for, 1,150,787
—, —, nickel sulfide, ores contg., for, 1,150,787
—, —, nitric acid for, 1,150,787
—, —, ore for, 1,150,787
—, —, oxide ores for, 1,150,787
—, —, process for, 1,150,787; 1,194,438
—, —, silica ores contg., for, 1,150,787
—, —, slimes for, 1,150,787
—, —, sodium chloride for, 1,150,787
—, —, sodium nitrate for, 1,150,787
—, —, strontium carbonate, ores contg., for, 1,150,787
—, —, sulfide ores for, 1,150,787
—, —, sulfuric acid for, 1,150,787
—, —, telluride ores for, 1,150,787
—, —, zinc carbonate, ores contg., for, 1,150,787
—, propylene chlorhydrin made with, 1,253,617
—, propylene glycol made with, 1,253,617; 1,308,796; 1,308,797
—, propylene oxide made with, 1,253,617
—, propylene oxidized by, 1,308,796; 1,308,797
—, sodium oxalate made with, 1,281,117
Arsenate of lime, see Calcium arsenate
Arsenate of soda, see Sodium arsenate
Arsenic, alloy contg., 1,359,064; 1,453,928
—, alloy made with, 1,127,624
—, alloy, copper-tin-zinc contg., 1,446,332
—, —, separation from of, apparatus for, 1,283,427
—, —, —, calcium carbonate for, 1,283,427
—, —, —, charcoal for, 1,283,427
—, —, —, coke for, 1,283,427
—, —, —, iron for, 1,283,427
—, —, —, lime for, 1,283,427
—, —, —, limestone for, 1,283,427
—, —, —, process for, 1,283,427
—, alloy contg., copper, zinc and, 1,327,400; 1,327,401
—, alloy contg., lead, electrolytic deposition of on, process for, 1,306,479
—, alloy of aluminum and, 1,340,437
—, alloy of antimony boron and, 1,338,279
—, alloy of lead and, 1,340,437
—, alloy of lead, sodium and, 1,338,279
—, alloy of tin and, 1,340,437
—, alloy of zinc and, 1,340,437
—, aluminum, separation from of, process for, 1,198,095
—, —, —, sulfuric acid for, 1,198,095
—, aluminum alloy contg., 1,453,928
—, *p*-amino-phenol made with, 1,239,822
—, ammonia synthesis with, 1,396,557
—, ammonium salt recovery with of, 1,258,934
—, ammonium sulfate recovery with of, 1,258,934
—, aniline made with, 1,239,822
—, animals destroyed using, 1,400,598
—, animals exterminated by fumes produced with, 1,400,598
Arsenic, antimony, separation from of, apparatus for, 1,283,427
—, —, —, calcium carbonate for, 1,283,427
—, —, —, charcoal for, 1,283,427
—, —, —, chlorine for, 1,475,422
—, —, —, coke for, 1,283,427
—, —, —, iron for, 1,283,427
—, —, —, lime for, 1,283,427
—, —, —, limestone for, 1,283,427
—, —, —, process for, 1,198,095; 1,283,427; 1,475,422
—, —, —, sulfuric acid for, 1,198,095
—, antimony arsenide made with, 1,262,019; 1,433,533
—, arsenic disulfide source, 1,433,533
—, arsenic trichloride source, 1,433,533
—, arseno-stilbino compounds from, 1,422,294
—, bag house dust contg., 1,194,438
—, battery, storage, container for, made with, 1,341,871
—, bismuth, removal from of, alkali for, 1,166,721
—, —, —, carbon for, 1,160,721
—, —, —, process for, 1,166,721
—, —, —, sodium hydroxide for, 1,166,721
—, —, —, sulfates for, 1,166,721
—, —, —, sulfides for, 1,166,721
—, —, —, sulfur for, 1,166,721
—, —, separation from of, process for, 1,198,095
—, —, —, sulfuric acid for, 1,198,095
—, "Bismuth cement" contg., 1,487,125
—, bismuth separated from, 1,428,041
—, bodies preserved with, 1,365,639
—, brass, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating of with, process for, 1,224,339
—, cadmium, separation from of, process for, 1,198,095
—, —, —, sulfuric acid for, 1,198,095
—, carbon tetrachloride, sulfur monochloride, separation of from using, 1,260,621
—, catalyst, iron as, made with, 1,489,497
—, catalyst contg., ammonia made with, 1,495,655
—, catalyst poison, 1,489,497; 1,510,598
—, —, for ammonia mfr., 1,148,570; 1,152,930
—, —, removal from fat, of, 1,132,710
—, —, removal from oil, animal, of, 1,132,710
—, —, —, vegetable, of, 1,132,710
—, chemical cartridge contg., 1,430,772
—, "chlorocyanic gas" generated with, 1,419,653
—, cobalt removed from zinc solutions by zinc dust and compounds of, 1,347,200
—, colloidal, preparing, cellulose soda liquor for, 1,460,012
—, —, —, cellulose sulfite liquor for, 1,460,012
—, copper, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating of with, process for, 1,224,339
—, —, separation from of, apparatus for, 1,283,427
—, —, —, calcium carbonate for, 1,283,427
—, —, —, charcoal for, 1,283,427
—, —, —, coke for, 1,283,427
—, —, —, iron for, 1,283,427
—, —, —, lime for, 1,283,427
—, —, —, limestone for, 1,283,427

Arsenic, copper, separation from of, process for, 1,198,095; 1,283,427
—, —, —, sulfuric acid for, 1,198,095
—, copper alloy contg., 1,327,400; 1,327,401
—, copper arsenide made with, 1,262,019
—, copper matte, separation from of, apparatus for, 1,175,266
—, —, —, copper for, 1,175,266
—, —, —, process for, 1,175,266
—, copper ores contg., 1,350,239
—, copper sulfate electrolyte, removal from of, process for, 1,148,522
—, copper sulfate solution contg., removal from of process for, 1,276,130
—, copper sulfide, separation from, apparatus for, 1,175,266
—, —, —, copper for, 1,175,266
—, —, —, process for, 1,175,266
—, cyanogen liberated from cyanides by chlorine and, 1,399,829
—, electrolytic potential of, 1,397,514
—, electrolytic slime contg., recovery from of, 1,315,660
—, enamel made with, 1,341,871
—, fertilizer contg., 1,409,126
—, fireproofing with compounds of, 1,418,609
—, flue dust contg., recovery from of, process for, 1,258,934
—, galvanized iron colored with, 1,436,729
—, glass contg., 1,292,147; 1,292,148
—, glass made with, 1,403,752
—, gold ore contg., 1,293,828
—, halogen compounds of, catalyst in sulfur-phenol resin formation, 1,435,801
—, insect destroyer contg., 1,394,497
—, iron, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, catalyst, made with, 1,489,497
—, —, coating of with, process for, 1,224,339
—, —, separation from of, process for, 1,198,095
—, —, —, sulfuric acid for, 1,198,095
—, iron arsenide made with, 1,262,019
—, lead hardened with, 1,433,533
—, lead, removal from of, 1,285,714 1,418,148; Re-15,960
—, —, separation from of, apparatus for, 1,283,427
—, —, —, calcium carbonate for, 1,283,427
—, —, —, charcoal for, 1,283,427
—, —, —, coke for 1,283,427
—, —, —, iron for, 1,283,427
—, —, —, lime for, 1,283,427
—, —, —, limestone for, 1,283,427
—, —, —, process for, 1,283,427
—, lead and, separation of, 1,401,743
—, lead arsenide made with, 1,262,019
—, lead bullion contg., removing from, 1,286,503
—, lead separated from, 1,428,041
—, manganese dioxide contg., purifying, 1,343,585; 1,352,087
—, manganese dioxide impurity, 1,305,250; 1,305,251; 1,305,252
—, medical compound contg., mfr. of, 1,297,952
—, metal, protective coating for contg., 1,318,313
—, molybdenum, separation of from, 1,281,961
—, nickel catalyst poisoned by, 1,300,144
—, ore contg., antimony made with, 1,163,286
Arsenic, ore contg., arsenic made with, 1,163,286
—, —, bismuth made with, 1,163,286
—, —, cadmium made with, 1,163,286
—, —, calcium sulfate made with, 1,163,286
—, —, copper made with, 1,163,286
—, —, iron made with, 1,163,286
—, —, recovery of, 1,292,075
—, —, smelting of, apparatus for, 1,164,653
—, —, —, process for, 1,164,653
—, —, treating, 1,388,086
—, —, —, chlorine for, 1,406,595; 1,406,597
—, —, zinc made with, 1,163,286
—, organic compounds contg., preparation of, 1,425,929
—, platinum alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating of with, process for, 1,224,339
—, platinum catalyst, effect on, 1,384,566
—, platinum catalyst poisoned by, 1,300,144
—, position in electro-chemical series, 1,429,131
—, poisoning with, electrolytic treatment for cure of, 1,123,683
—, precipitation of copper, effect on, 1,423,070
—, production of, 1,433,533
—, —, air for, 1,144,402; 1,146,373; 1,150,787; 1,163,286; 1,182,320; 1,188,705; 1,198,095; 1,243,681
—, —, alkali carbonate for, 1,144,402; 1,146,373
—, —, alkali earth carbonate for, 1,144,402; 1,146,373
—, —, alkali earth hydroxide for, 1,144,402
—, —, alkali earth oxide for, 1,144,402
—, —, alkali hydroxide for, 1,144,402
—, —, alkali oxide for, 1,144,402
—, —, ammonium hydroxide for, 1,150,787
—, —, antimony ore for, 1,163,286; 1,188,705
—, —, apparatus for, 1,243,681; 1,248,948; 1,456,615
—, —, aqua regia for, 1,248,948
—, —, arsenic, ore contg., for, 1,163,286
—, —, arsenic acid for, 1,194,438
—, —, arsenic material for, 1,198,095
—, —, arsenic ore for, 1,150,787; 1,188,705
—, —, arsenic sulfide for, 1,243,681; 1,261,023
—, —, asphalt for, 1,243,681
—, —, azurite for 1,146,373
—, —, barium carbonate for, 1,144,402; 1,146,373
—, —, barium hydroxide for, 1,144,402; 1,146,373
—, —, barium oxide for, 1,144,402; 1,146,373
—, —, bismuth ore for, 1,163,286; 1,188,705
—, —, bitumen for, 1,243,681
—, —, borax for, 1,248,948
—, —, bromine for, 1,245,137
—, —, cadmium for, 1,194,438
—, —, cadmium ore for, 1,163,286; 1,188,705
—, —, calcium, ore contg., for, 1,163,286
—, —, calcium acetate for, 1,456,615
—, —, calcium carbonate for, 1,144,402; 1,146,373; 1,150,787; 1,163,286; 1,456,615
—, —, calcium chloride for, 1,144,402; 1,146,373
—, —, calcium fluoride for, 1,150,787
—, —, calcium hydroxide for, 1,144,402; 1,146,373; 1,163,286
—, —, calcium oxide for, 1,144,402; 1,146,373; 1,456,615
—, —, calcium oxide, ores contg., for, 1,150,787

Arsenic, production of, calcium sulfide for, 1,456,615
—, —, carbonate ores for, 1,150,787; 1,163,286; 1,188,705; 1,245,137
—, —, carbon dioxide for, 1,150,787
—, —, chloride for, 1,144,402; 1,146,373
—, —, chlorine for, 1,144,402; 1,163,286; 1,245,137
—, —, coal tar for, 1,243,681
—, —, copper, ore contg., for, 1,163,286
—, —, copper carbonate for, 1,146,373
—, —, copper(ic) for, 1,144,402
—, —, copper(ic) chloride for, 1,146,373
—, —, copper(ous) chloride for, 1,144,402; 1,146,373
—, —, copper ore for, 1,144,402; 1,146,373; 1,188,705
—, —, copper oxides, ores contg., for 1,150,787
—, —, copper sulfide, ores contg., for 1,150,787
—, —, copper sulfide ore for, 1,475,843
—, —, copper(ous) sulfite for, 1,146,373
—, —, cyanide for, 1,222,789
—, —, flue dust for, 1,182,320; 1,198,095
—, —, fuel, gaseous, for, 1,198,095
—, —, gasolene for, 1,243,681
—, —, gold, ore contg., for, 1,163,286
—, —, gold ore for, 1,475,843
—, —, hydrocarbon for, 1,243,681
—, —, hydrochloric acid for, 1,150,787; 1,248,948
—, —, hydrofluoric acid for, 1,150,787
—, —, hydrogen sulfide for, 1,144,402; 1,146,373; 1,150,787; 1,456,615
—, —, iron for, 1,146,373; 1,163,286; 1,475,843
—, —, iron, ore contg., for, 1,163,286
—, —, iron(ous) carbonate for, 1,146,373
—, —, iron(ic) chloride for, 1,144,402; 1,146,373; 1,456,615
—, —, iron(ous) chloride for, 1,144,402; 1,146,373; 1,456,615
—, —, iron(ic) hydroxide for, 1,456,615
—, —, iron ore for, 1,146,373; 1,188,705
—, —, iron scrap for, 1,456,615
—, —, iron sulfide, ores contg., for, 1,150,787
—, —, iron sulfide ore for, 1,456,615
—, —, iron(ic) sulfite for, 1,146,373
—, —, iron(ous) sulfite for, 1,146,373
—, —, kerosene for, 1,243,681
—, —, lead, ore contg., for, 1,163,286
—, —, lead ore for, 1,188,705
—, —, lead smelter slag for, 1,146,373
—, —, lead sulfide ore for, 1,475,843
—, —, limestone for, 1,163,286; 1,456,615
—, —, magnesium carbonate for, 1,144,402; 1,146,373
—, —, magnesium chloride for, 1,144,402; 1,146,373
—, —, magnesium hydroxide for, 1,144,402; 1,146,373
—, —, magnesium hydroxide, ores contg., for, 1,150,787
—, —, magnesium oxide for, 1,144,402; 1,146,373
—, —, manganese ore for, 1,188,705
—, —, mattes for, 1,150,787
—, —, metal carbonate for, 1,146,373
—, —, mineral for, 1,150,787
—, —, nickel hydroxide, ores contg., for, 1,150,787
Arsenic, production of, nickel sulfide, ores contg., for, 1,150,787
—, —, nitric acid for, 1,150,787; 1,248,948
—, —, oil, mineral, for, 1,243,681
—, —, ore for, 1,150,787; 1,163,286; 1,188,705; 1,248,948
—, —, oxide ores for, 1,150,787; 1,163,286; 1,188,705; 1,245,137
—, —, oxygen for, 1,144,402; 1,146,373; 1,163,286
—, —, petroleum for, 1,243,681
—, —, potassium carbonate for, 1,144,402; 1,146,373
—, —, potassium chloride for, 1,146,373
—, —, potassium cyanide for, 1,475,843
—, —, potassium hydroxide for, 1,144,402; 1,146,373
—, —, potassium oxide for, 1,144,402; 1,146,373
—, —, process for, 1,144,402; 1,146,373; 1,150,787; 1,163,286; 1,182,320; 1,188,705; 1,194,438; 1,198,095; 1,222,789; 1,243,681; 1,245,137; 1,248,948; 1,456,615; 1,475,843
—, —, pyrites ore for, 1,456,615
—, —, resins for, 1,243,681
—, —, rosin oil for, 1,243,681
—, —, sand for, 1,248,948
—, —, selenium for, 1,222,789
—, —, selenium compound for, 1,122,789
—, —, shale oil for, 1,243,681
—, —, siderite for, 1,146,373
—, —, silica, ores contg., for, 1,150,787
—, —, silver, ore contg., for, 1,163,286; 1,475,843
—, —, slag for, 1,144,402; 1,146,373
—, —, slimes for, 1,150,787
—, —, smelter fumes for, 1,188,705
—, —, sodium carbonate for, 1,144,402; 1,146,373; 1,248,948
—, —, sodium chloride for, 1,144,402; 1,146,373; 1,150,787; 1,245,137; 1,475,843
—, —, sodium hydroxide for, 1,144,402; 1,146,373
—, —, sodium hypochlorite for, 1,245,137
—, —, sodium nitrate for, 1,150,787
—, —, sodium oxide for, 1,144,402; 1,146,373
—, —, sodium sulfate for, 1,475,843
—, —, sodium sulfide for, 1,456,615
—, —, steam for, 1,243,681
—, —, strontium carbonate for, 1,144,402; 1,146,373
—, —, strontium carbonate, ores contg., for, 1,150,787
—, —, strontium hydroxide for, 1,144,402; 1,146,373
—, —, strontium oxide for, 1,144,402; 1,146,373
—, —, sulfide ores for, 1,150,787; 1,245,137; 1,475,843
—, —, sulfur dioxide for, 1,144,402; 1,146,373; 1,163,286; 1,188,705; 1,245,137
—, —, sulfuric acid for, 1,150,787; 1,182,320; 1,194,438; 1,198,095; 1,475,843
—, —, telluride ores for, 1,150,787
—, —, water gas tar for, 1,243,681
—, —, zinc for, 1,475,843
—, —, zinc carbonate, ores contg., for, 1,150,787
—, —, zinc ore for, 1,146,373; 1,163,286; 1,188,705
—, —, zinc oxide for, 1,182,320
—, —, zinc sulfide ore for, 1,475,843

Arsenic, pyrites contg., sulfuric acid mfr. with, 1,365,964
—, recovery from ores contg., 1,415,897
—, recovery of, chloride for, 1,315,660
—, —, hydrochloric acid for, 1,315,660
—, —, process for, 1,249,226; 1,315,660
—, —, sulfuric acid for, 1,315,660
—, *red, see Arsenic disulfide*
—, removal from iron solution, 1,466,793
—, removal from ores contg., 1,467,516
—, removal from tin, 1,414,257; 1,414,259
—, removal from zinc solutions, 1,434,693
—, removal from zinc sulfate solutions, 1,427,826; 1,429,131
—, removing from ores, sodium chloride for, 1,356,100
—, removing from zinc solutions, hydrogen sulfide for, 1,360,524
—, removing from zinc sulfate solutions, 1,362,166
—, removing from zinc sulfate solutions, ozone for, 1,331,334
—, rodents destroyed using, 1,400,598
—, ship bottom, protective coating for contg., 1,318,313
—, silver, separation from of, process for, 1,198,095
—, —, —, sulfuric acid for, 1,198,095
—, slime, electrolytic, contg., separation from of, 1,305,787; 1,305,788
—, smelter fume, recovery from of, 1,496,410
—, sodium hydroxide action of on, 1,380,847
—, sulfur contg., sulfuric acid mfr. from, 1,384,566
—, tin, removal from of, 1,414,257
—, —, separation from of, apparatus for, 1,283,427
—, —, —, calcium carbonate for, 1,283,427
—, —, —, charcoal for, 1,283,427
—, —, —, chlorine for, 1,475,422
—, —, —, coke for, 1,283,427
—, —, —, iron for, 1,283,427
—, —, —, lime for, 1,283,427
—, —, —, limestone for, 1,283,427
—, —, —, process for, 1,283,427; 1,475,422
—, tin electrodeposition, action on, 1,466,126
—, tin ore contg., treating, 1,435,303
—, tin separated from, 1,428,041
—, tree fumigating cartridge contg., 1,401,292
—, vanadium, removal from of, process for, 1,129,253
—, —, separation of from, 1,392,745; 1,515,245
—, volatilization of, chlorine and hydrogen for, 1,430,454
—, *white, see Arsenic trioxide; Arsenic(ous) oxide*
—, wood, protective coating for contg., 1,318,313
—, wood treated with, 1,297,491
—, zinc, electrodeposition of, elimination from solution for of, 1,322,104
—, —, —, use of, 1,322,104
—, —, removal from of, 1,154,601; 1,154,602
—, —, —, process for, 1,241,966
—, —, separation from of, process for, 1,167,700; 1,167,701; 1,262,190
—, zinc separated from, 1,428,041
Arsenic, zinc smelter fumes contg., 1,154,601
—, zinc ores, separation of from, 1,399,020
—, zinc oxide pigment contg., removal of, 1,292,976
—, zinc solution, removal from of, process for, 1,255,436
—, —, separation from of, process for, 1,255,435; 1,255,438
—, zinc solutions contg., purifying, 1,382,494
—, zinc sulfate, removal from of, process for, 1,255,436; 1,255,439
—, —, removal from of, zinc dust for, 1,283,077; 1,283,078
—, —, separation from of, 1,263,852
—, —, —, process for, 1,255,435; 1,255,438
—, *see also Arsenic trioxide*
Arsenic acids, acridine derivatives of, preparing, 1,408,974
—, aniline black dyeing with, 1,329,117
—, arsanilic acid from, 1,405,228
—, arsenic made with, 1,194,438
—, arsenical solution contg., 1,456,509
—, arsenic pentasulfide, colloidal, made with, 1,412,439
—, cadmium sulfate made with, 1,194,438
—, calcium arsenate made with, 1,237,815; 1,428,946; 1,475,545; 1,507,690; 1,513,934
—, calcium arsenate ($Ca_3(AsO_4)_2$) made with, 1,266,258
—, —, ($Ca_2H_2(AsO_4)_2$), made with, 1,266,258
—, concentrating, 1,405,228
—, copper arsenate made with, 1,183,316
—, formation of, 1,425,929; 1,425,930; 1,425,931; Re-15,557
—, glass made with, 1,403,752
—, hydrochloric acid, removal of from, lead carbonate for, 1,141,920
—, —, removal of from, lead carbonate, basic, for, 1,141,920
—, —, —, lead hydroxide for, 1,141,920
—, —, —, lead oxide for, 1,141,920
—, insecticide contg., 1,417,232; 1,456,509; 1,514,348
—, lead arsenate made with, 1,141,920; 1,172,741; 1,183,315; 1,183,316; 1,228,516; 1,267,428; 1,296,557; 1,302,186; 1,322,008; 1,324,300; 1,344,035; 1,349,707; 1,387,212; 1,387,213; 1,398,267; 1,417,232; 1,418,848; 1,427,049
—, lead arsenate, $PbHAsO_4$, made with, 1,141,920; 1,169,114; 1,172,741; 1,184,693; 1,184,694; 1,344,035
—, —, $Pb_3(AsO_4)_2$, made with, 1,141,920; 1,169,114; 1,172,741; 1,184,693; 1,184,694; 1,344,035
—, lead arsenate mfr. with lead oxide and, 1,344,035
—, lead nitrate, basic, action on of, 1,296,557
—, lead oxide, action of on, 1,387,213
—, magnesium arsenate from, 1,420,978; 1,466,983
—, magnesium arsenate, $MgHAsO_4$, made with, 1,344,018
—, —, $Mg_3(AsO_4)_2$, made with, 1,344,018
—, magnesium arsenate mfr. from magnesium hydroxide and, 1,344,018
—, mfr. of, 1,415,323; 1,447,203; 1,447,937

Arsenic acids, mfr. of, air for, 1,415,323
—, —, alkali halide for, 1,125,086
—, —, apparatus for, 1,512,734
—, —, arsenic chloride for, 1,515,079
—, —, arsenic ore for, 1,512,733; 1,512,734
—, —, arsenic(ous) oxide for, 1,493,798
—, —, arsenic trichloride for, 1,512,733; 1,512,734
—, —, arsenic trioxide for, 1,125,086; 1,141,920; 1,169,114; 1,184,693; 1,184,694; 1,415,323; 1,512,734; 1,515,079
—, —, bag house dust for, 1,194,438
—, —, —, bromine in, 1,447,203
—, —, catalyst for, 1,447,203
—, —, chlorine for, 1,141,920; 1,169,114; 1,184,693; 1,184,694; 1,415,323; 1,447,203; 1,512,733; 1,512,734; 1,515,079
—, —, chromate for, 1,125,086
—, —, cobalt arsenide ore for, 1,512,734
—, —, cobalt ore for, 1,512,733
—, —, copper cathode for, 1,125,086
—, —, flue dust for, 1,194,438
—, —, furnace products for, 1,194,438
—, —, halogen for, 1,141,920
—, —, hydrochloric acid for, 1,493,798; 1,512,734
—, —, mispickel for, 1,512,733
—, —, nitric acid in, 1,447,203; 1,493,798
—, —, ore for, 1,194,438
—, —, platinum anode for, 1,125,086
—, —, process for, 1,125,086; 1,141,920; 1,169,114; 1,184,693; 1,184,694; 1,194,438; 1,415,323; 1,493,798; 1,512,733; 1,512,734; 1,515,079
—, —, silver ore for, 1,512,733
—, —, sodium chloride for, 1,125,086
—, —, speiss for, 1,512,733; 1,512,734
—, —, sulfur chloride for, 1,512,733
—, —, sulfuric acid for, 1,194,438
—, —, water for, 1,141,920; 1,415,323; 1,512,734
—, paint made with, 1,145,186
—, paint, anti-fouling, made with, 1,145,186; 1,456,509
—, potassium permanganate in mfr. of, 1,447,203
—, purification of, 1,415,323
—, rust-proofing made with, 1,145,186
—, solvent for, arsenic tribromide as, 1,456,509
—, —, bromine as, 1,456,509
—, —, oil as, 1,145,186
—, —, phthalychloride as, 1,456,509
—, —, tetrachlornaphthalene as, 1,456,509
—, —, tribromacetic acid as, 1,456,509
—, wood, preservative for, contg., 1,456,509
—, yohimbine arsenate from, 1,305,462
—, zinc arsenate made with, 1,183,316
—, *see also Arsenic pentoxide*
Arsenicals, production of, 1,447,203
Arsenical composition, see Cattle dip
Arsenical compounds, mfr. of, 1,424,006; 1,422,945
Arsenical gas, sewers, treatment of using, 1,498,823
—, pools, treatment of using, 1,498,823
Arsenical preparations, stable, preparation of, 1,431,671
Arsenical salts, making, 1,356,569
Arsenical solution, acetone in, 1,456,509
—, alcohol in, 1,456,509
—, alkaloid salts in, 1,456,509
—, amyl acetate in, 1,456,509
—, anthracene in, 1,456,509
—, arsenic acid in, 1,456,509
—, arsenic sulfide in, 1,456,509
—, arsenic tribromide in, 1,456,509
—, benzene in, 1,456,509
—, benzine in, 1,456,509
—, bromine in, 1,456,509
—, calcium arsenite in, 1,456,509
—, carbolineum in, 1,456,509
—, carbon tetrachloride in, 1,456,509
—, ether in, 1,456,509
—, ethyl acetate in, 1,456,509
—, naphthalene in, 1,456,509
—, nitrocompounds in, 1,456,509
—, paraffin oil in, 1,456,509
—, Paris green in, 1,456,509
—, petroleum in, 1,456,509
—, phenols in, 1,456,509
—, phthalylchloride in, 1,456,509
—, resins in, 1,456,509
—, Schweinfurt green in, 1,456,509
—, sulfur in, 1,456,509
—, tar oils in, 1,456,509
—, tetrachlornaphthalene in, 1,456,509
—, toluene in, 1,456,509
—, tribromacetic acid in, 1,456,509
Arsenic aluminate, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Arsenic bromide, arsenic chloride from, 1,445,082
—, copper mineral, ore, separation from of using, 1,151,117
—, hematite, ore, separation from of using, 1,151,117
—, lead mineral, ore, separation from of using, 1,151,117
—, limonite, ore, separation from of using, 1,151,117
—, preparation of, 1,445,082
—, zinc mineral, ore, separation from of, using, 1,151,117
Arsenic(ous) bromide, gangue, hematite, separation of from using, 1,244,884
—, —, iron ore, separation of from using, 1,244,884
—, —, limonite, separation of from, using, 1,244,884
—, hematite, gangue, separation from of, using, 1,244,884
—, iron ore, gangue, separation from of, using, 1,244,884
—, limonite, gangue, separation from of, using, 1,244,884
Arsenic carbonate ore, sulfur dioxide smelter fumes absorbed using, 1,236,236
Arsenic chloride, arsenic acid made with, 1,515,079
—, arsenic oxide from, 1,332,113
—, catalyst in hydrocarbon cracking, 1,381,098

Arsenic chloride, formation of, 1,356,100; 1,396,740; 1,406,595; 1,406,597; 1,434,485; 1,434,486
—, formation from arsenic oxide and sodium chloride, 1,332,113
—, mfr. of, bromine for, 1,445,082
—, —, chlorine for, 1,475,422
—, —, lead sulfide ore for, 1,491,653
—, —, process for, 1,475,422; 1,491,653
—, —, sulfur chloride for, 1,491,653
—, —, zinc sulfide ore for, 1,491,653
—, perylen mfr. with, 1,384,615
—, recovery of, process for, 1,512,733
—, rubber, reclaiming of, using, 1,189,721
—, —, vulcanization of, using, 1,204,374
—, subliming temperature of, 1,434,485; 1,434,486
—, volatilizing, 1,396,740
Arsenic(ous) chloride, formation of, 1,406,595
—, hydrochloric acid from, 1,406,597
—, utilization of, 1,406,597
—, volatilization of, 1,406,595
Arsenic colloid, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Arsenic compound, aluminum compound, separation of from, process for, 1,503,229
—, antiseptic made with, 1,205,924
—, balata vulcanized with, 1,463,794
—, catalyst, iron as, made with, 1,489,497
—, catalyst poison, 1,489,497; 1,510,598
—, catalyst poison in ammonia mfr., 1,148,570; 1,152,930
—, catalyst for citronellal mfr., 1,210,681
—, catalyst poison in citronellic acid mfr., 1,210,681
—, catalyst poison in citronellol mfr., 1,210,681
—, catalyst poison in 3.7-dimethyl-caprylaldehyde mfr., 1,210,681
—, catalyst poison in 3.7-dimethyl-caprylic acid mfr., 1,210,681
—, catalyst poison in 3.7-dimethyl-1-octanol mfr., 1,210,681
—, catalyst poison in, 3.7-dimethyl-3-octanol mfr., 1,210,681
—, catalyst poison in 3.7-dimethyl-Δ^6-3-octanol mfr., 1,210,681
—, cement contg., 1,296,468
—, cod oil, removal from of, process for, 1,247,516
—, copper, removal from of, 1,232,080
—, copper compound, separation of from, process for, 1,503,229
—, copper smelter fume contg., 1,243,323; 1,244,453
—, copper stained with, 1,308,092
—, copper sulfate, removal from of, 1,232,080
—, —, —, air for, 1,503,229
—, —, —, alkali nitrate for, 1,503,229
—, —, —, apparatus for, 1,503,229
—, —, —, formic acid for, 1,503,229
—, —, —, hydrochloric acid for, 1,503,229
—, —, —, nitrate for, 1,503,229
—, —, —, nitric acid for, 1,503,229
—, —, —, nitrogen dioxide for, 1,503,229
Arsenic compound, copper sulfate, removal from of, nitrogen tetroxide for, 1,503,229
—, —, —, oxygen for, 1,503,229
—, —, —, ozone for, 1,503,229
—, —, —, process for, 1,503,229
—, —, —, sulfur dioxide for, 1,503,229
—, —, —, sulfuric acid for, 1,503,229
—, enamel, opaque, made with, 1,314,831
—, *febris recurrens*, treatment of using, 1,197,971
—, fish oil, removal from of, process for, 1,247,516
—, fungicide made with, 1,205,924
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
—, gutta percha vulcanized with, 1,463,794
—, hog cholera, treatment of using, 1,197,971
—, insecticide made with, 1,205,924
—, iron, catalyst, made with, 1,489,497
—, mfr. of, acetic acid for, 1,512,432
—, —, acetic acid, glacial, for, 1,214,924
—, —, acetic anhydride for, 1,521,560
—, —, acetic-arsenious anhydride for, 1,521,560
—, —, alcohol for, 1,191,580; 1,506,460
—, —, alkali earth hydroxide for, 1,512,432
—, —, alkali hydroxide for, 1,512,432
—, —, 4-amino-arsenophenyl-dimethyl-pyrazolone(?) carbamate of, for, 1,431,671
—, —, 4-amino-arsenophenyl-dimethyl-pyrazolone(?) methylene-sulfoxylate of, for, 1,431,671
—, —, *p*-aminophenyl-arsinic acid acetanilide(?) for, 1,501,894
—, —, anisaldehyde for, 1,501,894
—, —, arsanilic acid for, 1,501,894
—, —, *o*-arsanilic acid for, 1,501,894
—, —, arsenic tribromide for, 1,178,708
—, —, arsenic trichloride for, 1,178,708; 1,191,580
—, —, arsenic trioxide for, 1,512,432
—, —, arsenious acid for, 1,521,560
—, —, 2.2(*p.p'*-arsenodiphenyl)bis(4-amino-1.5-dimethyl-3(2)-pyrazolone)-diformaldehydebisulfite for, 1,506,460
—, —, benzaldehyde for, 1,501,894
—, —, benzyl alcohol for, 1,313,657
—, —, *p-brom*-benzaldehyde for, 1,501,894
—, —, cadmium nitrate for, 1,501,894
—, —, carbon dioxide for, 1,178,708; 1,191,580
—, —, *p*-chlor-benzaldehyde for, 1,501,894
—, —, chlorine for, 1,509,688
—, —, cinnamaldehyde for, 1,501,894
—, —, cobalt nitrate for, 1,501,894
—, —, compound (CHAs)x for, 1,521,560
—, —, copper acetate for, 1,512,432
—, —, copper arsenite for, 1,512,432
—, —, copper hydroxide for, 1,512,432
—, —, copper sulfate for, 1,501,894; 1,512,432
—, —, diamino-dihydroxy-arsenobenzene, silver salt of, for, 1,506,460
—, —, —, sodium salt of, for, 1,506,460
—, —, diamino-dihydroxy-arsenobenzene-formaldehydebisulfite for, 1,506,460
—, —, 3.3'-diamino-4.4'-dihydroxy-arsenobenzene for, 1,431,671
—, —, —, carbamate of, for, 1,431,671
—, —, —, methylene-sulfoxylate for, 1,431,671

Arsenic compound, mfr. of, 3.3′-diamino-4.4′-dihydroxy-arseno-benzene for, silver salt of, for, 1,431,671
—, —, —, sodium salt of, for, 1,431,671
—, —, —, sulfoxylate of, for, 1,431,671
—, —, dimethylamino-tetramino-arsenobenzene for, 1,431,671
—, —, 4.4′-dimethylamino-3.3′.5.5′-tetramino-arsenobenzene-diformaldehyde-bisulfite for, 1,506,460
—, —, dust for, 1,509,688
—, —, ether for, 1,178,708; 1,501,894
—, —, ethyl alcohol for, 1,501,894
—, —, formaldehydebisulfite for, 1,506,460
—, —, fumes for, 1,509,688
—, —, 3.4.5.3′.4′.5′-hexamino-arsenobenzene for, 1,214,924
—, —, hydrochloric acid for, 1,191,580; 1,521,560
—, —, hydrogen dioxide for, 1,521,560
—, —, hypochlorite for, 1,509,688
—, —, iron(ic) nitrate for, 1,501,894
—, —, lead carbonate for, 1,512,432
—, —, lead compound for, 1,512,432
—, —, lead nitrate for, 1,501,894
—, —, lead sulfate for, 1,512,432
—, —, lithium cacodylate for, 1,313,657
—, —, lithium methyl arsenide for, 1,313,657
—, —, magnesium hydroxide for, 1,512,432
—, —, magnesium oxide for, 1,512,432
—, —, magnesium sulfate for, 1,512,432
—, —, mercury(ic) nitrate for, 1,501,894
—, —, mercury(ous) nitrate for, 1,501,894
—, —, *o*-methoxy-benzaldehyde for, 1,501,894
—, —, methyl-arsanilic acid for, 1,501,894
—, —, *o*-nitro-benzaldehyde for, 1,501,894
—, —, nitrogen for, 1,506,460
—, —, nucleic acid for, 1,197,971
—, —, petroleum ether for, 1,178,708
—, —, phenyl-propiolic acid for, 1,178,708; 1,191,580
—, —, piperonal for, 1,501,894
—, —, potassium cacodylate for, 1,313,657
—, —, potassium hydroxide for, 1,178,708; 1,191,580
—, —, potassium methyl arsenide for, 1,313,657
—, —, process for, 1,178,708; 1,191,580; 1,197,971; 1,214,924; 1,280,119; 1,280,120; 1,280,121; 1,280,122; 1,280,123; 1,280,124; 1,280,125; 1,280,126; 1,280,127; 1,297,952; 1,313,657; 1,315,127; 1,431,671; 1,501,894; 1,506,460; 1,509,688; 1,512,432; 1,521,560
—, —, pyruvic acid for, 1,501,894
—, —, salvarsan for, 1,214,924
—, —, silver nitrate for, 1,501,894
—, —, smelter fumes for, 1,509,688
—, —, sodium acetate for, 1,521,560
—, —, sodium benzoate for, 1,297,952
—, —, sodium cacodylate for, 1,197,971; 1,297,952; 1,313,657
—, —, sodium carbonate for, 1,509,688; 1,521,560
—, —, sodium hydroxide for, 1,431,671; 1,501,894; 1,509,688; 1,521,560
—, —, sodium methyl arsenide for, 1,313,657
—, —, sodium phenolate for, 1,197,971
—, —, water for, 1,509,688
—, marine animal oil, removal from of, process for, 1,247,516
Arsenic compound, medicant for hypodermic injection of, mfr. of, camphor for, 1,510,259
—, —, —, fat, vegetable, for, 1,510,259
—, —, —, glycerol for, 1,510,259
—, —, —, phenol for, 1,510,259
—, —, —, process for, 1,510,259
—, medicinal compound made with, 1,510,259
—, menhaden oil, removal from of, process for, 1,247,516
—, metal stained with, 1,308,092
—, nickel compound, separation of from process, for, 1,503,229
—, niter cake contg., 1,251,522
—, organic, mfr. of, 1,425,929
—, —, —, process for, 1,472,778
—, —, preparation of, 1,425,929; 1,425,930; 1,425,931; Re-15,557; 1,445,685; 1,454,748
—, —, titrating, iodine for, 1,454,748
—, phenol-aldehyde condensates as, antifouling paints of, 1,456,509
—, rubber vulcanized with, 1,463,794
—, silver stained with, 1,308,092
—, soluble, mfr. of, 1,446,160
—, water-soluble, mfr. of, 1,297,952
—, whale oil, removal from of, process for, 1,247,516
—, wood, fungi, preservation from attacks by of with composition contg., 1,182,760
—, —, insects preservation from attacks by of with composition contg., 1,182,760
—, —, molds, preservation from attacks by of with composition contg., 1,182,760
—, —, parasites, preservation from attacks by of with composition contg., 1,182,760
—, —, preserving of, using, 1,374,806
—, —, teredo, preservation from attacks by of with composition contg., 1,182,760
—, —, treatment of, using, 1,374,806
—, zinc compound, separation of from, process for, 1,503,229
—, zinc sulfate, removal from of, 1,496,004
Arsenic(ous) compound silk, artificial, viscose, precipitation of using, 1,399,587
—, vulcanization accelerator, 1,510,652
Arsenic derivatives, organic, trivalent, preparation of, 1,425,931; Re-15,557
Arsenic dimethyl, see Cacodyl
Arsenic dimethyl-dithiocarbamate, vulcanization accelerator, 1,513,122
Arsenic disulfide, battery, electric, contg., 1,316,760
—, fish skin tanned with, 1,256,974
—, porpoise skin tanned with, 1,256,974
—, shark skin tanned with, 1,256,974
—, skin tanned with, 1,256,974
—, whale skin tanned with, 1,256,974
—, *see also Arsenic sulfide, AsS; Arsenic trisulfide*
Arsenic fumes, electrical precipitation of, 1,413,993
Arsenic halide, lamp, vapor electric, made with, 1,176,630; 1,176,661
—, perylene made with, 1,384,615
—, resin, artificial, made with, 1,435,801
Arsenic hydroxide, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831

Arsenic hydroxide, glass, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Arsenic material, arsenic made with, 1,198,095
—, arsenic oxide made with, 1,198,095
—, lead made with, 1,198,095
—, lead sulfate made with, 1,198,095
—, zinc sulfate made with, 1,198,095
Arsenic methyl-dithiocarbamate, vulcanization accelerator, 1,513,122
Arsenic nitride, ammonia synthesis with, 1,396,557
Arsenic oleate, wood preservative contg., 1,443,602
Arsenic ore, arsenic made with, 1,188,705
—, arsenic acid made with, 1,512,733; 1,512,734
—, arsenic chloride made with, 1,430,454
—, arsenic trichloride made with, 1,512,734
—, arsenic trioxide made with, 1,512,733
—, arsenites made with, 1,512,733
—, barium arsenate made with, 1,188,740
—, bismuth made with, 1,188,705
—, cadmium made with, 1,188,705
—, calcium arsenate made with, 1,188,740; 1,504,627; 1,512,733
—, copper made with, 1,188,705
—, gold made with, 1,188,705
—, insecticide made with, 1,504,627
—, iron made with, 1,188,705
—, lead made with, 1,188,705
—, lead arsenate made with, 1,188,740
—, manganese dioxide made with, 1,188,705
—, silver made with, 1,188,705
—, sodium arsenate made with, 1,188,740; 1,504,627
—, treatment of, apparatus for, 1,406,596
—, —, chlorine for, 1,406,596; 1,406,597
—, zinc made with, 1,188,705
—, *see also Ore*
Arsenic oxide, arsenic acid mfr. from, 1,447,937
—, arsenic chloride from, 1,421,978
—, arsenic chloride from sodium chloride and, 1,332,113
—, arsenic compound prepared from, 1,445,685
—, arsine produced from, 1,375,819
—, borosilicate glass mfr. with, 1,449,793
—, coating, anti-fouling, made with, 1,489,596
—, enamel, opaque, made with, 1,314,831
—, formation of, 1,332,114; 1,406,597
—, glass made with, 1,449,793
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, —, translucent, made with, 1,166,922
—, glaze, opaque, made with, 1,314,831
—, lead arsenate made with, 1,344,035
—, lead arsenate, $PbHAsO_4$, made with, 1,344,035
—, lead arsenate, $Pb_3(AsO_4)_2$, made with, 1,344,035
—, mfr. of, air for, 1,198,095
—, —, arsenic material for, 1,198,095
—, —, flue dust for, 1,198,095
—, —, fuel gaseous for, 1,198,095
—, —, process for, 1,198,095
—, —, sulfuric acid for, 1,198,095
—, motor fuel contg., 1,377,992
—, organic, preparation of, 1,425,930
Arsenic oxide, paint made with, 1,145,186
—, paint, anti-fouling, made with, 1,145,186
—, rust-proofing made with, 1,145,186
—, selenium oxychloride as solvent of, 1,385,081
—, solvent for, oil as, 1,145,186
—, —, selenium oxychloride as, 1,385,081
Arsenic oxide ore, sulfur dioxide smelter fumes absorbed using, 1,236,236
Arsenic oxychloride, formation of, 1,414,257; 1,414,259; 1,447,203
—, rubber, reclaiming of, using, 1,189,721
—, —, vulcanization of, using, 1,204,374
Arsenic pentasulfide, battery, electric, contg., 1,316,760
—, colloidal, mfr. of, acacia for, 1,412,439
—, —, —, arsenic acid for, 1,412,439
—, —, —, hydrochloric acid for, 1,412,439
—, —, —, process for, 1,412,439
—, —, —, sodium lysalbuminate for, 1,412,439
—, —, —, sodium protalbuminate for, 1,412,439
—, —, —, sodium sulfide for, 1,412,439
Arsenic pentoxide, bag house dust contg., 1,194,438
—, calcium arsenate made with, 1,505,648; 1,513,934
—, glass made with, 1,488,914
—, Johnson grass killer using composition contg., 1,173,019
—, mfr. of, 1,447,203
—, mfr. of, arsenic for, 1,433,533
—, —, arsenic trioxide for, 1,517,516
—, —, chlorine for, 1,517,516
—, —, dust for, 1,509,688
—, —, fumes for, 1,509,688
—, —, nitric acid for, 1,517,516
—, —, process for, 1,509,688; 1,517,516
—, —, smelter fumes for, 1,509,688
—, —, water for, 1,509,688
—, plants, killed using composition contg., 1,173,019
—, preparation of, 1,415,323
—, weeds killed using composition contg., 1,173,019
—, *see also Arsenic acid*
Arsenic phosphate, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque made with, 1,314,831
Arsenic salt, dyestuff made with, 1,250,289
Arsenic silicate, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Arsenic sulfate, rubber, reclaiming of, using, 1,189,721
—, —, vulcanization of, using, 1,204,374
Arsenic sulfate ore, gold made with, 1,177,396
—, platinum made with, 1,177,396
—, silver made with, 1,177,396
Arsenic sulfide, arsenic made with, 1,243,681
—, arsenical solution contg., 1,456,509
—, arsenic chloride from, 1,421,978
—, carbon tetrachloride, sulfur monochloride, separation of from using, 1,260,621
—, chloridizing, zinc chloride for, 1,396,740

Arsenic sulfide, colloidal, preparation of, 1,412,439
—, —, preparing, cellulose soda liquor for, 1,460,012
—, —, —, cellulose sulfite liquor for, 1,460,012
—, coumarone-rubber article made with, 1,248,226
—, finely divided, producing, 1,442,485
—, formation of, 1,427,826; 1,434,693
—, gasket made with, 1,248,226
—, gold ore contg., roasting of, apparatus for, 1,283,782
—, insecticide contg., 1,456,509
—, mfr. of, acid for, 1,502,285
—, —, ammonium chloride for, 1,261,023
—, —, arsenic for, 1,261,023
—, —, chloride for, 1,261,023
—, —, electrolytic process for, 1,261,023
—, —, process for, 1,261,023; 1,502,285
—, —, sodium chloride for, 1,261,023
—, —, sodium thioarsenate for, 1,502,285
—, —, sulfur for, 1,261,023
—, paint, anti-fouling, made with, 1,456,509
—, pigment contg., 1,399,506; 1,427,826
—, rubber article made with, 1,248,226
—, silver ore contg., roasting of, apparatus for, 1,283,782
—, skins dehaired with, 1,345,429
—, solvent for, arsenic tribromide as, 1,456,509
—, —, bromine as, 1,456,509
—, —, phthalylchloride as, 1,456,509
—, —, tetrachlornaphthalene as, 1,456,509
—, —, tribromacetic acid as, 1,456,509
—, wood, preservative for, contg., 1,456,509
—, (AsS), fish skins, tanning of, using, 1,230,266
—, —, porpoise skins, tanning of, using, 1,230,266
—, —, shark skins, tanning of, using, 1,230,266
—, —, whale skins, tanning of, using, 1,230,266
—, —, *see also Realgar*
Arsenic sulfide ore, gold made with, 1,177,396
—, platinum made with, 1,177,396
—, silver made with, 1,177,396
—, sulfur dioxide smelter fumes absorbed using, 1,236,236
Arsenic tribromide, arsenic acid solvent, 1,456,509
—, arsenic solution prepared with, 1,456,509
—, arsenic compound made with, 1,178,708
—, arsenic sulfide solvent, 1,456,509
—, insecticide prepared with, 1,456,509
—, octinebromarsonic acid(?) made with, 1,201,692
—, octinebromarsenoxide(?) made with, 1,201,692
—, paint, anti-fouling, made with, 1,456,509
—, Paris green solvent, 1,456,509
—, phenyl-propiolic acid, compound of and, 1,178,708
—, Schweinfurt green solvent, 1,456,509
—, therapeutic compound made with, 1,178,708
—, wood, preservative for, prepared with, 1,456,509
Arsenic trichloride, alkylaminophenylarsenic acids for, 1,440,621
—, *N*-amyl-arsanilic acid made with, 1,440,621
—, arsenic acid made with, 1,512,733; 1,512,734
Arsenic trichloride, arsenic compound made with, 1,178,708; 1,191,580
—, arsenic trioxide made with, 1,512,733
—, arsenites made with, 1,512,733
—, bag house dust contg., 1,194,438
—, calcium arsenate made with, 1,512,733
—, 2-chlor-*N.N*-dimethyl-arsanilic acid made with, 1,156,045
—, 2-chlor-*N*-methyl-arsanilic acid made with, 1,156,045
—, N.N-diamyl arsanilic acid made with, 1,440,621
—, N.N-diethyl-arsanilic acid made with, 1,440,621
—, N.N.-dimethyl-arsanilic acid made with, 1,440,621
—, heptinechlorarsenoxide made with, 1,201,692
—, hydrochloric acid made with, 1,512,734
—, iron(ic) chloride, removal of from, 1,512,734
—, mfr. of, 1,332,115; 1,421,978
—, —, apparatus for, 1,168,678; 1,512,734
—, —, arsenic ore for, 1,512,734
—, —, arsenic trioxide for, 1,512,734
—, —, carbonyl chloride for, 1,421,978
—, —, chlorine for, 1,512,734
—, —, cobalt arsenide ore for, 1,512,734
—, —, electrolytic process for, 1,168,678
—, —, hydrochloric acid for, 1,512,734
—, —, ore for, 1,168,678
—, —, process for, 1,168,678; 1,512,734
—, —, sodium chloride for, 1,168,678
—, —, speiss for, 1,512,734
—, phenyl-propiolic acid, compound of and, 1,178,708
—, polish made with, 1,166,494
—, potassium chloride mfr. from feldspar with, 1,332,114
—, purification of, apparatus for, 1,512,734
—, —, arsenic trioxide for, 1,512,734
—, —, hydrochloric acid for, 1,512,734
—, —, process for, 1,512,734
—, Schweinfurt green, acetone and, arsenical solution contg., 1,456,509
—, —, acetone and, insecticide contg., 1,456,509
—, —, —, wood, preservative for, contg., 1,456,509
—, sulfur chloride, removal of from, 1,512,734
—, therapeutic compound made with, 1,178,708
Arsenic trioxide, alloy made with, 1,221,873
—, aluminum oxide made with, 1,332,113
—, aluminum oxide mfr. from clay with, 1,332,115
—, animal dip made with, 1,137,844
—, ant poison contg., 1,450,128
—, arsenic acid made with, 1,125,086; 1,141,920; 1,169,114; 1,184,693; 1,184,694; 1,415,323; 1,433,533; 1,493,798; 1,512,734; 1,515,079
—, arsenic pentoxide made with, 1,517,516
—, arsenic trichloride made with, 1,512,734
—, arsenic trichloride, purification of, using, 1,512,734
—, arsine made from, 1,375,819
—, arsono-acetic acid made with, 1,445,685
—, bag house dust contg., 1,194,438

Arsenic trioxide, battery, storage, container for, made with, 1,341,871
—, bleaching, metals for, 1,372,443
—, calcium arsenate made with, 1,415,323; 1,505,648; 1,517,516
—, calcium arsenate from slaked quicklime and, 1,447,938
—, cattle dip made with, 1,498,639
—, cellulose soda liquor and, colloidal solutions prepared with, 1,460,012
—, cellulose sulfite liquor and, colloidal solutions prepared with, 1,460,012
—, copper alloy made with, 1,221,873
—, copper alloy, coloring of using, 1,327,400; 1,327,401
—, —, uranium made with, 1,221,873
—, —, vanadium in made with, 1,221,873
— copper arsenate made with, 1,183,315
—, enamel made with, 1,341,871
—, ferro-alloy made with, 1,221,873
—, fertilizer contg., 1,324,848
—, fish skins, tanning of using, 1,230,266; 1,235,543; 1,256,974
—, flue gas, recovery from of, apparatus for, 1,204,906
—, —, —, process for, 1,204,906
—, fungicide made with, 1,194,608; 1,235,285
—, gingivitis treated with compound contg., 1,469,322
—, glass contg., 1,513,923
—, glass made with, 1,312,784; 1,365,797; 1,467,030; 1,488,914; 1,488,915
—, herbicidal spray contg., 1,446,160
—, hydrochloric acid made with, 1,141,920; 1,169,114; 1,184,693; 1,184,694; 1,415,323
—, insecticide contg., 1,395,919
—, insecticide made with, 1,137,844; 1,185,603; 1,194,608; 1,235,285; 1,324,848; 1,512,432
—, iron alloy made with, 1,221,873
—, iron alloy, uranium in made with, 1,221,873
—, —, vanadium in made with, 1,221,873
—, iron arsenate made with, 1,183,315
—, Johnson grass killed using composition contg., 1,173,019
—, lead, arsenate made with, 1,141,920; 1,175,565; 1,183,315; 1,228,516; 1,415,323; 1,512,432; 1,517,516
—, lead arsenate, $PbHAsO_4$, made with, 1,141,920; 1,169,114; 1,184,693; 1,184,694
—, —, $(Pb_3(AsO_4)_2$, made with, 1,141,920; 1,169,114; 1,184,693; 1,184,694
—, lead arsenite made with 1,175,565
—, mfr. of, arsenic ore for, 1,512,733
—, —, arsenic trichloride for, 1,512,733
—, —, carbon for, 1,148,522
—, —, charcoal for, 1,148,522
—, —, chlorine for, 1,512,733
—, —, cobalt ore for, 1,512,733
—, —, copper sulfate electrolyte for, 1,148,522
—, —, dust for, 1,509,688
—, —, fumes for, 1,509,688
—, —, mispickel for, 1,512,733
—, —, process for, 1,148,522; 1,194,438; 1,509,688; 1,512,733
—, —, silver ore for, 1,512,733
—, —, smelter fumes for, 1,509,688
—, —, speiss for, 1,512,733
Arsenic trioxide, mfr. of, sulfur chloride for, 1,512,733
—, —, sulfur dioxide for, 1,148,522
—, —, sulfuric acid for, 1,148,522
—, —, sulfurous acid for, 1,148,522
—, —, water for, 1,509,688
—, (mono)mercury sulfarsenite prepared with, 1,412,439
—, mercury(ic) thioarsenite, colloidal, made with, 1,412,439
—, parasiticide made with, 1,194,608
—, Paris green made with, 1,512,432
—, plants killed using composition contg., 1,173,019
—, porpoise skins, tanning of, using, 1,230,266; 1,256,974
—, preparation of, 1,426,602
—, purifying, metals for, 1,372,443
—, rat-poison contg., 1,372,092; Re-15,130
—, recovery of, from sulfur dioxide, apparatus for, 1,321,211
—, —, —, process for, 1,321,211
—, —, process for, 1,321,211
—, rustproofing using, 1,493,012
—, selenium in, removing, metals for, 1,372,443
—, shark skins, tanning of, using, 1,230,266; 1,235,543; 1,256,974
—, sheep dip made with, 1,498,639
—, (mono) silver sulfarsenite prepared with, 1,412,439
—, silver thioarsenite, colloidal, made with, 1,412,439
—, skin tanned with, 1,256,974
—, sodium arsenate made with, 1,517,516
—, sodium arsenate, Na_2HAsO_4, made with, 1,125,086
—, sodium arsenate, Na_3AsO_4, made with, 1,125,086
—, sodium arsenite compound from, 1,446,160
—, steel, tool made with, 1,221,873
—, sulfo-oxyarsenates mfr. from, 1,424,006
—, tellurium in, removing, metals for, 1,372,443
—, Texas fever tick, animal dip for, made with, 1,137,844
—, tin arsenate, made with, 1,183,315
— tree, killing of using composition contg., 1,172,685
—, trimercury(ic) thioarsenite, colloidal, made with, 1,412,439
—, uranium, copper alloy contg., made with, 1,221,873
—, —, iron alloy contg., made with, 1,221,873
—, vanadium, copper alloy contg., made with, 1,221,873
—, —, iron alloy contg., made with, 1,221,873
—, Vincent's spirochaeta treated with, 1,469,322
—, water softening composition contg., 1,399,651
— weeds killed using, composition contg., 1,173,019
—, whale skins, tanning of, using, 1,230,266; 1,235,543; 1,256,974
—, wood, preserving of with, 1,276,725
—, zinc arsenate made with, 1,183,315
Arsenic (tri) sulfide, aluminum chloride for precipitating, 1,373,179
—, aluminum sulfate for precipitating, 1,373,179

Arsenic (tri) sulfide, brine, Searles lake, contg., 1,373,179
—, *see also Arsenic(ous) oxide*
—, brine contg., treating, 1,394,978
—, colloidal, mfr. of, acacia for, 1,412,439
—, —, —, process for, 1,412,439
—, —, —, sodium lysalbuminate for, 1,412,439
—, —, —, sodium protalbuminate for, 1,412,439
—, colloidal solution of, mfr. of, process for, 1,189,696
—, explosive made with, 1,493,921
—, formation of, sulfarsenite preparation, 1,412,439
Arsenic (penta) sulfide, colloidal 1,412,439
—, colloidal, preparation of, 1,412,439
—, paint, luminous, made with, 1,237,368
—, paraffin oil, bromine and, arsenical solution contg., 1,456,509
—, —, bromine and, insecticide contg., 1,456,509
—, —, —, wood, preservative for, contg., 1,456,509
—, phthalyl chloride, carbon tetrachloride and, arsenical solution contg., 1,456,509
—, —, —, insecticide contg., 1,456,509
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N-(*p*-Arsonophenyl)glycine-dipropylamide, sodium salt of, therapeutic use of, 1,280,119; 1,280,124
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N-(*p*-Arsonophenyl)glycine-ethylamide, sodium salt of, therapeutic use of, 1,280,119; 1,280,124
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N-(*p*-Arsonophenyl)glycine-methylamide, sodium salt of, therapeutic use of, 1,280,119; 1,280,124
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N-(*p*-Arsonophenyl)glycine-methylureide, mfr. of, *p*-aminophenylarsonic acid for, 1,280,120; 1,280,125
—, —, *a*-chloracetyl-*b*-methyl-urea for, 1,280,120; 1,280,125
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—, —, hydrochloric acid for, 1,280,120; 1,280,125
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—, *N*-(arsonosophenyl)glycyl-*m*′-aminophenol made with, 1,280,121; 1,280,122
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—, binder for, copal as, 1,317,204
—, —, gum as, 1,317,204
—, —, naphthalene as, 1,317,204
—, —, naphthalene derivative as, 1,317,204
—, —, naphthol as, 1,317,204
—, —, naphthol derivatives as, 1,317,204
—, —, shellac as, 1,317,204
—, bituminous composition, fibrous, made with, 1,156,122
—, bleaching, hydrochloric acid vapors for, 1,346,316
—, —, phosgene for, 1,346,316
Asbestos, blower made with, 1,430,561
—, blue, electrode, welding, made with, 1,241,899
—, board made with, 1,158,667
—, board, artificial, made with, 1,334,061
—, —, fire-proof, made with, 1,192,931; 1,226,779
—, —, fire-resistant, made with, 1,159,866
—, —, flexible made with, 1,252,468
—, —, laminated, made with, 1,130,410
—, —, water-resistant, made with, 1,159,866
—, boxes contg., 1,464,242
—, brake band contg., 1,307,857
—, brake band facing contg., 1,465,389
—, brake lining made with, 1,151,690; 1,162,371; 1,277,108; 1,414,378; 1,414,383; 1,417,778; 1,417,779; 1,418,607; 1,420,882; 1,420,883; 1,426,842; 1,429,267; 1,517,606; 1,519,322
—, brake lining ingredient, 1,436,362
—, brake shoe made with, 1,205,482; 1,242,069
—, brake shoe filling composition contg., 1,429,358
—, breech block, gas check pad for, made with, 1,229,662
—, brick made with, 1,193,952; 1,211,028; 1,364,004
—, brick, composite, contg., 1,314,772
—, bricks of, cellulose sulfite liquor as binder for, 1,158,365
—, briquet made with, 1,246,805; Re-14,653; 1,246,807
—, briquet of, cellulose sulfite liquor as binder for, 1,311,221; 1,311,222
—, building block made with, 1,193,952; 1,418,160
—, building material made with, 1,183,694; 1,201,535; 1,211,028; 1,218,217; 1,288,158; 1,288,159; 1,408,760; 1,484,370; 1,503,409; 1,513,922; 1,516,045; 1,520,791
—, building paper made with, 1,209,315
—, button made with, 1,160,362; 1,160,365; 1,470,637
—, butylene chlorhydrin made with, 1,315,229
—, cable, coating for contg., 1,305,222
—, cadmium sulfate, electrolysis of using, 1,264,802
—, calcium hydroxide, treatment with of, 1,256,296
—, calcium magnesium silicate, hydrated, in, 1,317,853
—, caoutchouc, purification, using dialyzer membrane of, 1,136,462
—, caoutchouc composition contg., 1,437,487
—, carbon black made with, 1,220,391
—, carbon dioxide made with, 1,284,888; 1,285,117
—, carbon dioxide absorption apparatus contg., 1,382,072
—, carbon monoxide detection of using, 1,321,062
—, carboy, closure for, made with, 1,481,505
—, carbureter heating pad made with, 1,236,440
—, cardboard made with, 1,160,362; 1,160,365
—, cartridge made with, 1,189,011
—, casein composition made with, 1,437,487
—, casting mold contg., 1,338,141
—, catalyst contg., 1,255,590

Asbestos, catalyst made with, 1,143,332; Re-14,167; 1,143,339; 1,505,162
—, catalyst (for amines, aromatic, mfr.), made with, 1,207,802
—, —, (ammonia mfr.) made with, 1,148,570; 1,152,930; 1,173,532; 1,363,392; 1,363,393
—, —, (for aniline mfr.) made with, 1,207,802
—, —, (for hydrocyanic acid mfr.) made with, 1,352,176
—, —, (for sulfuric acid mfr.) made with, 1,183,414
—, —, (for *o*-toluidine mfr.) made with, 1,207,802
—, —, acetaldehyde made with, 1,355,299
—, —, ammonium nitrate made with, 1,237,884
—, —, ammonium nitrite made with, 1,237,884
—, —, dehydrogenation, with, 1,215,334; 1,215,335; 1,271,013
—, —, formaldehyde made with, 1,460,244
—, —, hydrogenation, made with, 1,143,332; Re-14,167; 1,156,674; 1,158,664; 1,171,902; 1,174,245; 1,215,334; 1,215,335; 1,251,202; 1,271,013
—, —, nickel, made with, 1,158,664; 1,208,833; 1,251,202; 1,326,767; 1,327,396; 1,491,465
—, —, nitrate made with, 1,178,440
—, —, nitric acid made with, 1,178,440; 1,237,884
—, —, nitrogen dioxide made with, 1,237,884
—, —, nitrogen tetroxide made with, 1,237,884
—, —, nitrogen trioxide made with, 1,237,884
—, —, nitrous acid made with, 1,237,884
—, —, palladium, made with, 1,326,767; 1,505,162
—, —, phthalic anhydride made with, 1,489,741
—, —, platinum, made with, 1,326,767; 1,505,162
—, —, silver vanadate as, made with, 1,183,414
—, —, vanadium pentoxide as, made with, 1,458,478
—, catalyst in acetylene oxidation, 1,355,299
—, catalyst in acetylene product mfr., 1,421,743
—, catalyst in formaldehyde synthesis, 1,460,244
—, catalyst for hydrogenation of hydrocarbon made with, 1,152,765
—, catalyst for hydrogenation of lamp oil made with, 1,152,765
—, catalyst for hydrogenation of petroleum made with, 1,152,765
—, catalyst for hydrogenation of resin oil made with, 1,152,765
—, catalyst for hydrogenation of shale oil made with, 1,152,765
—, catalyst for sulfuric acid mfr., made with, 1,227,044
—, catalyst made with, cotton seed oil, hydrogenation of, with, 1,275,405
—, —, fat, hydrogenation of, with, 1,275,405
—, —, hydrogenation with, 1,275,405
—, —, oil, hydrogenation of, with, 1,275,405
—, —, whale oil, hydrogenation of, with, 1,275,405
—, catalyst carrier on, 1,391,666
—, catalyst carrier, acetic made with, 1,201,850
—, —, acetone made with, 1,201,850
—, —, alcohols made with, 1,201,850
—, —, aldehydes made with, 1,201,850
Asbestos, catalyst carrier, almond oil, hydrogenation of using, 1,154,495
—, —, ammonia made with, 1,256,875
—, —, ammonia, oxidation of, using, 1,322,291
—, —, castor oil, hydrogenation of using, 1,154,495
—, —, corn oil, hydrogenation of using, 1,154,495
—, —, cotton seed oil, hydrogenation of using, 1,154,495
—, —, cresol made with, 1,208,833
—, —, ethane made with, 1,201,850
—, —, ethylene made with, 1,201,850
—, —, fat, hydrogenation of using, 1,184,480
—, —, fatty acid, hydrogenation of using, 1,154,495
—, —, fish oil, hydrogenation of using, 1,154,495
—, —, formaldehyde made with, 1,201,850
—, —, hydrogenation process using, 1,184,480
—, —, ketones made with, 1,201,850
—, —, linseed oil, hydrogenation of using, 1,154,495
—, —, methane made with, 1,201,850
—, —, molybdenum oxide made with, 1,321,959
—, —, molybdenum trioxide made with, 1,321,959
—, —, mustard oil, hydrogenation of using, 1,154,495
—, —, nitrogen oxides, mfr. of, using, 1,322,291
—, —, oil, hydrogenation of using, 1,154,495; 1,184,480
—, —, —, mineral, hydrogenation of using, 1,160,670
—, —, —, vegetable, hydrogenation of using, 1,160,670
—, —, oleic acid, hydrogenation of using, 1,154,495
—, —, peanut oil, hydrogenation of using, 1,154,495
—, —, phenol made with, 1,208,833
—, —, propylene made with, 1,201,850
—, —, resin hydrogenated using, 1,167,264
—, —, soya bean oil, hydrogenation of using, 1,154,495
—, —, succinic acid made with, 1,491,465
—, —, tung oil, hydrogenation of using, 1,154,495
—, catalyst support, 1,308,777
—, celluloid substitute made with, 1,160,362; 1,160,365; 1,510,779
—, cellulose sulfite digester, lining for, made with, 1,492,866
—, cement contg., 1,253,011; 1,259,651; 1,269,116; 1,408,401; 1,456,667
—, cement made with, 1,233,101; 1,477,938; 1,507,379
—, cement, acid-proof, contg., 1,259,651
—, —, magnesium, made with, 1,212,575
—, —, mfr. of, asbestos sand for, 1,317,853
—, —, waterproof made with, 1,299,798
—, cement article made with, 1,514,666
—, cement contg., waste, 1,365,077
—, cement structural material contg., 1,355,406
—, cementing action of, 1,317,853
—, ceramic article made with, 1,492,753; 1,509,406; 1,509,478
—, chains, coating for contg., 1,305,222
—, chlorhydrin made with, 1,315,229

Asbestos, chloride made with, 1,160,847
—, chloride made with apparatus coated with composition contg., 1,186,936
—, chlorine made with, 1,137,874; 1,167,705
—, chromium, nickel alloy wire contg., insulated, made with, 1,233,808
—, cigarette holders made with, 1,482,358
—, cigarette-lighting, composition contg., 1,454,902
—, cigarette wrapper made with, 1,518,944
—, cleaning, 1,407,686
—, clutch facing made with, 1,180,503; 1,270,559; 1,417,778; 1,417,779; 1,420,882; 1,420,883; 1,426,842; 1,429,266; 1,436,158; 1,519,322
—, clutch lining made with, 1,151,690; 1,414,383
— clutch rings from, 1,447,347
—, coating composition made with, 1,334,061; 1,409,472
—, coffin made with, 1,234,180
—, coloring of, apparatus for, 1,202,652
—, —, ethyl ether for, 1,202,652
—, —, gasolene for, 1,202,652
—, —, process for, 1,202,652
—, composite article made with, 1,295,230; 1,309,757
—, composite material contg. phenol aldehyde condensate and, 1,295,230
—, composition contg., 1,276,507; Re-14,570
—, composition board made with, 1,236,006
—, composition, molded, contg., 1,299,847
—, —, structural, contg., 1,302,452
—, —, vulcanizable, contg., 1,302,463
—, concrete, nailing, contg., 1,456,985
—, condenser, electric, made with, 1,497,449
—, —, —, dielectric for made with, 1,266,377
—, conductor, electric, made with, 1,501,330
—, contact element, electric, made with, 1,501,330
—, cooling safe made with, 1,518,189
—, copper made with, 1,190,549
—, copper coated, catalyst, formaldehyde made with, 1,213,740
—, copper impregnated, formaldehyde made with, 1,213,740
—, corn oil made with, 1,161,481
—, cotton mixed with, 1,407,686
—, cotton seed oil, hydrogenation of, catalyst for made with, 1,171,902; 1,275,405
—, coumarone-rubber article made with, 1,248,226
—, cylinders of, chlorination apparatus made with, 1,141,266
—, —, cooling apparatus made with, 1,141,266
—, —, distillation, fractional, apparatus made with, 1,141,266
—, —, gas, absorption of, apparatus made with, 1,141,266
—, —, —, treatment of, apparatus made with, 1,141,266
—, —, —, washing of, apparatus made with, 1,141,266
—, —, hydrogenation apparatus made with, 1,141,266
—, damonterolite, plasticity increased with of, 1,509,406; 1,509,478
Asbestos, dehydrogenation, catalyst for, made with, 1,215,334; 1,215,335
—, dental cement made with, 1,507,379
—, dental inlay, mold for, made with, 1,380,398
—, denture cleaning composition contg., 1,345,819
—, desk tops contg., 1,464,242
—, detonator made with, 1,498,001
—, dissolving, glass for, 1,394,973
—, distillation apparatus made of, 1,422,475
—, door knobs made with, 1,482,358
—, dress form made with, 1,123,600
—, drier for, construction of, 1,222,841
—, dyeing of, apparatus for, 1,333,700
—, —, electrical process for, 1,333,700
—, —, process for, 1,333,700
—, ehrenbergite, plasticity increased with of, 1,509,406; 1,509,478
—, electrical insulating material contg., 1,430,266
—, electrical resistance unit contg., 1,440,202
—, electric contact element made with, 1,501,330
—, electric-welding flux contg., 1,341,558
—, electrode, arc lamp, made with, 1,212,610
—, —, carbon, protective coating for contg., 1,312,256
—, —, welding, made with, 1,144,390; 1,261,395
—, electrolyte, plasticity increased with of, 1,509,406
—, electrolytic cell diaphragm of, 1,337,724; 1,412,174; 1,490,332
—, engine, internal combustion, pitson for, made with, 1,490,849
—, eternite contg., 1,415,466
—, ethyl alcohol made with, 1,169,321
—, ethylene made with, 1,206,222
—, ethylene chlorhydrin made with, 1,315,229
—, fabric made with, 1,503,337
—, fairlead bushing made with, 1,357,238
—, fan made with, 1,430,561
—, fan blades made with, 1,430,561
—, fan hub made with, 1,430,561
—, fat made with, 1,209,723
—, fat, hydrogenation of, with catalyst made with, 1,275,405
—, felt, waterproofed, made with, 1,288,158; 1,288,159
—, felted, band of, mfr. of, 1,301,612
—, fiber articles of, 1,372,118
—, fiber board contg., 1,297,480
—, fiber board made with, 1,423,081; 1,423,083
—, fiber picture made with, 1,207,841
—, fiber sheet made with, 1,215,064
—, fibrous sheet made with, 1,209,315
—, filter made with, 1,147,991; 1,198,039
—, filter, bacterial, made with, 1,256,171
—, filter made of cheese cloth and, 1,285,233
—, filtering compound mfr. from, 1,336,591; 1,409,206
—, fire-brick contg., 1,355,689
—, fireproof board made with, 1,226,779
—, fireproof paint contg., 1,442,089
—, fireproofing made with, 1,123,401; 1,507,181; 1,518,857
—, fireproofing of, composition for, 1,136,370; 1,192,931

Asbestos, fireproofing material contg., waste, 1,351,149
—, fire-retardent made with, 1,152,798
—, fish oil, hydrogenation of, catalyst for, made with, 1,174,245
—, floor covering made using, 1,141,897; 1,156,122; 1,190,942; 1,192,460; 1,227,923; 1,260,625; 1,263,823; 1,482,336
—, flooring contg., 1,254,788
—, flooring made with, 1,194,926; 1,245,329; 1,246,805; Re-14,653; 1,246,806; 1,246,807
—, flooring, composite contg., 1,314,772
—, formaldehyde distillation apparatus made of, 1,422,475
—, formaldehyde-urea condensate made with, 1,482,357; 1,482,358
—, formula of, 1,353,621
—, friction clutch rings of asphalt oil and, 1,450,319
—, friction fabric made with, 1,519,322
—, friction facing made with, 1,275,043; 1,417,778; 1,417,779; 1,420,882; 1,420,883; 1,426,842; 1,466,907; 1,493,290; 1,498,386
—, friction lining made with, 1,151,690; 1,162,371; 1,414,383
—, fuel made with, 1,342,799
—, fuel contg., fibers of, 1,342,799
—, furnace lining made with, 1,271,052
—, furniture made with, 1,160,362; 1,160,365
—, fuse, electric, safety, made with, 1,288,724
—, gas, absorbent for, made with, 1,321,061
—, —, detection of using, 1,321,062
—, gas-check pad, core for, made with, 1,143,622
—, gaskets made with, 1,137,373; 1,151,690; 1,162,371; 1,194,408; 1,203,762; 1,248,226; 1,374,463; 1,409,206; 1,409,275; 1,409,276; 1,409,277; 1,506,044; 1,516,130
—, gasket (jar closure), made with, 1,194,273
—, gasket material contg., 1,409,275; 1,409,276; 1,409,277
—, gas mask made with, 1,321,061
—, gear made with, 1,223,216; 1,298,816; 1,492,145
—, gears, coating for contg., 1,305,222
—, glass mfr. with, 1,394,973
—, glycol made with, 1,206,222
—, gold, production of using, 1,190,549
—, granite, imitation, made using, 1,141,897
—, grease, water, separation from of using, 1,198,039
—, gums, plasticity increased with of, 1,509,406
—, handles made with, 1,482,358
—, heater, electric, made with, 1,507,379; 1,513,239
—, heat-insulating material contg., 1,442,325; 1,442,326; 1,442,327; 1,442,328
—, heat-insulator contg., 1,307,548; 1,307,549
—, " hoolamite " made with, 1,321,062
—, hydrocarbon, hydrogenation of, catalyst for made with, 1,152,765
—, hydrogen made with, 1,172,885; 1,208,722; 1,219,843; 1,220,391
—, hydrogen, detection of, apparatus for made with, 1,467,911
—, hydrogen made using separator made of, 1,176,105
Asbestos, hydrogenation, catalyst for, made with, 1,143,332; Re-14,167; 1,152,765; 1,156,674; 1,158,664; 1,171,902; 1,174,245; 1,215,334; 1,215,335; 1,251,202; 1,275,405
—, impregnating, urea-formaldehyde condensate for, 1,458,543
—, impregnation of, resin, artificial, for, 1,451,843
—, insulating composition contg., 1,427,621; 1,456,667
—, insulating material contg., 1,332,860; 1,353,621; 1,353,622; 1,402,133; Re-15,844; Re-15,952
—, insulating material mfr. from, 1,431,962
—, insulating varnish, electric, for, 1,149,171
—, insulation made with, 1,162,092
—, insulation, electric, made with, 1,123,401; 1,155,812; 1,155,813; 1,156,122; 1,165,164; 1,183,423; 1,211,443; 1,213,144; 1,213,726; 1,217,873; 1,227,465; 1,233,415; 1,233,416; 1,242,592; 1,242,593; 1,255,139; 1,274,728; 1,286,370; 1,286,372; 1,299,798; 1,300,218; Re-15,199; 1,332,860; 1,346,397; 1,357,238; 1,372,114; 1,392,849; 1,397,144; 1,409,275; 1,409,276; 1,409,277; 1,413,144; 1,413,145; 1,425,784; 1,427,911; 1,430,266; 1,431,962; 1,443,935; 1,448,386; 1,470,637; 1,493,062; 1,503,337; 1,521,241
—, —, fireproof, made with, 1,183,694
—, —, heat, made with, 1,123,401; 1,152,798; 1,164,941; 1,190,857; 1,211,028; 1,218,679; 1,228,485; 1,288,486; 1,228,609; 1,230,085; 1,230,297; 1,233,801; 1,245,723; 1,252,468; 1,299,798; 1,353,621; 1,366,147; 1,402,133; Re-15,844; Re-15,952; 1,439,653; 1,456,667; 1,503,337; 1,513,922; 1,520,893
—, —, sound, made with, 1,233,801
—, iron, arc-welding, of, flux contg., 1,323,768
—, iron impregnated, ammonia made with, 1,148,570; 1,152,930
—, iron in, removing, hydrochloric acid for, 1,346,316
—, iron oxide, pigment, made with, 1,490,372
—, ivory, imitation, made with, 1,482,358
—, ivory substitute made with, 1,482,357; 1,514,509
—, kiln lining material of, 1,378,710
—, knife handle made of, 1,160,362; 1,160,365
—, konjak root, treatment with of, 1,236,183
—, lacquer made with, 1,242,592; 1,242,593
—, lamp, incandescent, made with, 1,159,111
—, lamp oil, hydrogenation of, catalyst for made with, 1,152,765
—, lath substitute made with, 1,211,028
—, leather, artificial, made with, 1,140,174; 1,217,123; 1,276,113; 1,392,849; 1,493,062
—, —, imitation, backed with, 1,291,180
—, leatherboard contg., 1,302,513
—, leather substitute made with, 1,409,275; 1,409,276; 1,482,336
—, lime, dolomitic, treatment with of, 1,256,296
—, —, treatment with of, 1,256,296
—, limonite associated with, 1,346,316
—, liquid, radio-active made with, 1,239,227
—, liquids filtered with powdered, 1,404,185
—, liquids purified with powdered, 1,404,185
—, lubricant made with, 1,133,204

Asbestos, lubricant car-journals, contg., 1,143,153
—, lubricant for heavy machinery contg., 1,449,608
—, lumber, composite, made with, 1,217,369
—, —, waterproofing, 1,431,962
—, luting composition, acid-proof, made with, 1,281,702
—, machine element made with, 1,298,816
—, magnesia, treatment with of, 1,256,296
—, magnesia plaster contg., 1,436,747
—, manganese, nickel alloy wire contg., insulated, made with, 1,233,808
—, manganese dioxide made with, 1,218,772
—, —, asbestos sand for, apparatus for, 1,317,852; 1,317,853
—, marble, imitation, made using, 1,141,897
—, material, building contg., 1,314,772
—, material, composite, contg., 1,314,772
—, matrix, linotype, made with, 1,158,962
—, matrix, printing plate made with, 1,144,338
—, —, stereotyping made with, 1,144,338
—, mending compound contg., 1,291,207;
—, mesothorium chloride made with, 1,142,154
—, metal, coated, made with, 1,168,599
—, —, enameling of, using, 1,495,632
—, microphone made using, 1,177,047
—, mine-ventilating tubing contg., 1,432,585
—, mold made with, 1,238,183; 1,262,973; 1,380,398
—, molded article made with, 1,125,906; 1,130,223; 1,137,373; 1,146,045; 1,146,299; 1,150,642; 1,160,362; 1,160,365; 1,198,172; 1,216,515; 1,216,728; 1,227,465; 1,233,264; 1,246,805; Re-14,653; 1,246,806; 1,246,807; 1,268,031; 1,286,370; 1,286,372; 1,299,798; 1,299,847; 1,300,218; Re-15,199; 1,334,061; 1,342,067; 1,344,765; 1,346,397; 1,357,147; 1,357,238; 1,358,394; 1,368,753; 1,372,114; 1,392,849; 1,397,144; 1,409,275; 1,425,784; 1,433,730; 1,438,840; 1,439,991; 1,443,935; 1,470,637; 1,477,870; 1,477,938; 1,482,357; 1,482,358; 1,484,370; 1,489,744; 1,492,753; 1,495,205; 1,495,206; 1,500,303; 1,503,392; 1,503,409; 1,509,406; 1,509,478; 1,513,323; 1,513,922; 1,514,508; 1,514,509; 1,514,666; 1,517,360; 1,520,791
—, molding of, process for, 1,439,991
—, molding composition filler, 1,443,935
—, molybdenum-iron catalyst carrier by, 1,386,555
—, montmorillonite, plasticity increased with of, 1,509,406; 1,509,478
—, mortar made with, 1,509,478
—, mortar for setting fire-brick contg., 1,252,785
—, mosaic, imitation, made using, 1,141,897
—, nailacrete contg., 1,314,772
—, naphthoquinones made with, 1,284,888; 1,285,117
—, nickel, catalyst, made with, 1,208,833; 1,251,202; 1,491,465
—, nickel alloy wire, chromium in, insulated, made with, 1,233,808
—, —, manganese in, insulated, made with, 1,233,808
—, nickel catalyst carried by, 1,327,396
—, nickel catalyst mixed with, 1,375,368
Asbestos, nitric acid made with, 1,233,564
—, nitro-compound reduction of using, 1,124,776
—, nitrogen oxides made with, 1,233,564
—, nitrous acid made with, 1,233,564
—, nuts, oil from, made with, 1,209,723
—, oat oil made with, 1,161,481
—, obturating material made with, 1,192,661; 1,192,662
—, obturator, heavy, ordnance, made with, 1,143,622
—, oil, hydrogenation of, catalyst for made with, 1,158,664; 1,275,405
—, —, vegetable, made with, 1,161,481; 1,209,723
—, —, water, separation from of using, 1,198,039
—, oil cloth, imitation, made with, 1,140,174
—, ordnance obturator composition contg., 1,143,622
—, ornaments made with, 1,482,358
—, oven wall made with, 1,488,798
—, oxygen made with, 1,172,885; 1,208,722 1,219,843
—, oxygen made using separator made of, 1,176,105
—, packing contg., 1,133,541; 1,158,770; 1,270,056
—, packing made with, 1,137,373; 1,151,690; 1,161,213; 1,162,371; 1,194,408; 1,409,275; 1,409,276; 1,409,277; 1,511,397
—, packing, valve, contg., 1,283,994
—, packing material of water-glass and, 1,295,339
—, packing material contg., 1,441,951
—, paint contg., 1,317,225; 1,362,241; 1,385,033; 1,385,034; 1,397,028
—, paint contg., fibers of, 1,374,161
—, paint made with, 1,123,401; 1,200,731; 1,234,816; 1,362,241; 1,385,033; 1,385,034; 1,451,092; 1,507,181
—, paint, antifouling, made with, 1,421,914
—, —, fireproof, contg., 1,444,051
—, —, waterproof using, 1,444,051
—, palladium, catalyst, made with, 1,505,162
—, palladiumized, catalyst in ammonia oxidation, 1,458,969
—, paper made with, 1,160,362; 1,160,365; 1,500,500
—, paper, fire-proof, made with, 1,164,941
—, —, heat insulating made with, 1,164,941
—, paper board made with, 1,164,941
—, paving blocks contg., 1,421,751
—, paving block grouting, 1,465,448
—, peanut oil made with, 1,209,723
—, pea oil made with, 1,161,481
—, petroleum, hydrogenation of, catalyst for made with, 1,152,765
—, phenol aldehyde condensate made with, 1,146,045; 1,187,230; 1,187,232; 1,188,014; 1,210,982; 1,213,144; 1,213,726; 1,242,592; 1,242,593; 1,253,261; 1,286,372; 1,339,134; 1,342,067; 1,358,394; 1,368,753; 1,503,392
—, phenol aldehyde condensate, composition of contg., 1,218,146; 1,259,472; 1,259,473
—, —, compound of and, 1,133,083
—, —, hardening of with, 1,269,627
—, —, impregnation with of, process for, 1,261,615
—, —, molded article of made with, 1,269,627

Asbestos, phonograph record made with, 1,276,507; Re-14,570; 1,470,637
—, phosphine detection of using, 1,321,062
—, phthalic acid made with, 1,284,888; 1,285,117
—, phthalic anhydride made with, 1,284,888; 1,285,117
—, pigment, iron oxide as, made with, 1,490,372
—, pipe made with, 1,124,045; 1,156,122; 1,198,172
—, pipe covering made with, 1,209,315; 1,387,348; 1,513,922
—, pipe stem made with, 1,160,362; 1,160,365; 1,482,358
—, pipe tobacco cartridge made with, 1,518,944
—, piston packing contg., 1,332,320
—, plaster board contg., 1,456,924; 1,513,922
—, plaster substitute made with, 1,211,028
—, plastic contg., 1,254,788; 1,294,836; 1,299,798; 1,299,922; 1,310,180; 1,397,144
—, plastic made with 1,123,600; 1,124,045; 1,146,299; 1,150,642; 1,157,234; 1,160,362; 1,160,365; 1,173,337; 1,190,815; 1,193,952; 1,194,201; 1,194,926; 1,201,535; 1,206,076; 1,211,028; 1,211,382; 1,233,264; 1,246,806; 1,260,625; 1,265,855; 1,274,728; 1,299,798; 1,346,397; 1,364,004; 1,379,590; 1,397,144; 1,425,784; 1,427,911; 1,470,637; 1,482,929; 1,487,957; 1,489,744; 1,495,205; 1,495,206; 1,507,379; 1,509,466; 1,509,478; 1,511,949; 1,513,922
—, plastic composition contg., 1,346,397; 1,379,590; 1,425,784; 1,427,911; 1,438,840
—, plastic composition (for water closet tanks, etc.) contg., 1,437,618
—, plastic material contg., 1,370,637
—, plate, printing, made with, 1,146,299
—, platinized, catalyst, 1,347,158
—, —, —, ammonia oxidation made with, 1,458,969
—, —, —, benzaldehyde made with, 1,284,887
—, —, —, benzoic acid made with, 1,284,887
—, —, —, nitric acid made with, 1,193,797; 1,193,798; 1,193,800
—, —, —, nitrogen, nitrogen dioxide, removal from of using, 1,487,647
—, —, —, —, nitrogen oxides, removal from of, using, 1,487,647
—, —, —, —, oxygen, removal from of, using, 1,487,647
—, —, —, nitrogen dioxide made with, 1,193,797; 1,193,798; 1,193,800
—, —, —, nitrogen dioxide, nitrogen, removal from of, using, 1,487,647
—, —, —, nitrogen oxides, nitrogen, removal from of, using, 1,487,647
—, —, —, oxygen, nitrogen, removal from of, using, 1,487,647
—, —, —, sulfuric acid, made with, 1,520,093
—, —, catalyst of, cleaning, water for, 1,429,222
—, —, catalyst for heating apparatus, 1,379,742
—, —, catalyst for oxidation of nitrogen of, 1,372,541
—, —, catalyst for sulfur dioxide oxidation, 1,348,462
—, —, catalytic heating apparatus contg., 1,347,631
—, —, heating apparatus contg., 1,379,742
Asbestos, platinized, heating apparatus, catalytic, made with, 1,202,199
—, platinum, catalyst, made with, 1,505,162
—, platinum catalyst support, 1,309,623
—, platinum impregnated, alcohol, solidified, burning of, using, 1,502,807
—, porcelain made with, 1,507,379
—, porous material made with, 1,518,189
—, power transmitting composition contg., 1,368,945
—, printer's blanket contg., 1,464,242
—, projectile retarding material made with, 1,192,661; 1,192,662
—, propylene chlorhydrin made with, 1,315,229
—, pulleys, coating for contg., 1,305,222
—, pulpboard made with, 1,160,362; 1,160,365
—, pulse oil made with, 1,161,481
—, puncture-closing composition contg., 1,299,273
—, pyrogallol aldehyde condensate made with, 1,286,372
—, pyrotechnic made with, 1,320,514
—, radiator repair composition contg., 1,467,065
—, radium-barium chloride made with, 1,142,154
—, railroad tie made with, 1,124,045; 1,250,194
—, railroad ties coated with asphalt and, 1,418,708
—, record, phonograph, made with, 1,146,299; 1,413,984; 1,482,358; 1,513,120; 1,516,469
—, —, —, matrix for, made with, 1,144,338
—, rectifier, electric, made with, 1,155,649
—, refractory made with, 1,271,052; 1,283,754; 1,327,758; 1,355,689; 1,509,478; 1,515,375
—, refractory material contg., 1,327,758; 1,372,016
—, refrigerator made using, 1,175,376
—, resin, artificial, made with, 1,194,201
—, resin oil, hydrogenation of, catalyst for made with, 1,152,765
—, resinous material contg., 1,299,706
—, resistance, electric, made with, 1,507,379; 1,513,239
—, resistance wire, electric, made with, 1,192,457
—, road paving made with, 1,156,122; 1,218,218
—, rock, stone, artificial, made with, 1,140,559
—, roofing made with, 1,141,897; 1,156,122; 1,167,195; 1,197,307; 1,204,085; 1,204,086; 1,206,076; 1,211,382; 1,220,966; 1,226,904; 1,234,816; 1,263,823; 1,264,807; 1,357,920; 1,362,887; 1,503,409; 1,511,949
—, roofing, composite contg., 1,314,772
—, roofing contg., fibers of, 1,374,885
—, roofing composition contg., 1,449,058
—, roofing material mfr. from, 1,436,914
—, roofing paper made with, 1,209,315
—, roofing tile contg., 1,464,242
—, rope, coating for contg., 1,305,222
—, rubber, artificial, made with, 1,285,463
—, rubber article made with, 1,248,226; 1,493,062
—, rubber composition contg., 1,262,828; 1,455,893
—, rubber substitute made with, 1,160,362; 1,160,365; 1,223,692; 1,265,855; 1,409,275
—, safe, burglar proof, made using, 1,232,330

Asbestos, screen, motion picture, made with, 1,152,620
—, sealing composition made with, 1,334,061; 1,429,407
—, seeds, oil from made with, 1,209,723
—, separating of, air for, 1,243,096
—, —, apparatus for, 1,243,096
—, —, liquid for, 1,243,096
—, —, process for, 1,243,096
—, —, steam for, 1,243,096
—, sewage treatment by, 1,364,387
—, shale oil, hydrogenation of, catalyst for made with, 1,152,765
—, sheathing made with, 1,362,887
—, sheaves, coating for contg., 1,305,222
—, sheet, flooring made of asphalite and, 1,382,595
—, shellac substitute made with, 1,160,362; 1,160,365
—, shingle made with, 1,123,449; 1,197,307; 1,464,242
—, shingle, artificial, made with, 1,218,217; 1,223,834
—, —, asbestos contg., made with, 1,130,240
—, ship, sunken, compound for filling hole in, made with, 1,157,234
—, shoe filler made with, 1,136,980; 1,203,229; 1,334,061
—, shoe heel made with, 1,265,855
—, shoe protecting composition contg., 1,429,237
—, shoe sole made with, 1,260,625; 1,265,855
—, shoe stiffener blank for made with, 1,283,391
—, shoe stiffening composition contg., 1,429,237
—, shot-gun shell contg., fiber impregnated with, 1,340,245
—, signal flare made with, 1,320,514
—, silver made with, 1,190,549
—, silver vanadate, catalyst, made with, 1,183,414
—, slabs of, mfr., 1,423,000
—, slate, writing, made with, 1,520,380
—, snow, imitation, made with, 1,192,372
—, soapstone, lubricant, car-journals, contg., 1,143,153
—, sodium made with, apparatus coated with composition contg., 1,186,936
—, sodium hydroxide made with, 1,167,705; 1,485,473
—, sodium silicate in, 1,317,853
—, solder, self-fusing, made with, 1,151,679
—, sound-deadening composition contg., 1,406,618
—, sound-recording chamber constructed using, 1,190,133
—, soya bean oil made with, 1,161,481
—, sparkler made with, 1,174,321
—, sprockets, coating for contg., 1,305,222
—, steel, arc-welding of, flux contg., 1,323,768
—, —, coating of using, 1,195,090
—, —, structural, protecting of, process for, 1,167,949
—, stereotype, mold for casting of, made with, 1,191,353
—, stone, artificial, contg., 1,456,667
—, —, —, made with, 1,130,223; 1,130,240; 1,135,176; 1,204,085; 1,204,086; 1,223,834; 1,234,692; 1,246,805; Re-14,653; 1,246,807; 1,492,753
Asbestos, stopper, porous, made with, 1,481,505
—, stove board made with, 1,192,931
—, stream-line casings made with, 1,344,765; 1,433,730
—, stucco made with, 1,138,069; 1,253,011
—, sulfur combustion accelerated by, 1,455,284
—, sulfuric acid, catalyst for the mfr. of, made with, 1,183,414; 1,227,044
—, sulfur recovered from furnace gas with, 1,314,634
—, sulfur trioxide, catalyst for the mfr. of, made with, 1,227,044
—, Swedish, battery, storage, electrolyte for, made with, 1,213,182
—, syphilis treated with apparatus made using, 1,228,451
—, table mat made with, 1,215,223
—, table top made with, 1,334,061
—, tannic acid, plasticity increased with of, 1,509,406
—, tape for wheel fellies made with, 1,477,975
—, tar, lining made of and, 1,137,779
—, terne plate made with, 1,213,851
—, thermal insulating material contg., 1,435,416
—, thermostatic metal made with, 1,250,862
—, thorium compound made with, 1,142,154
—, tile made with, 1,130,240; 1,198,172; 1,204,085; 1,204,086; 1,364,004; 1,492,753; 1,503,409; 1,513,620; 1,520,791
—, tile substitute made with, 1,484,370
—, tire made with, 1,223,692; 1,235,861
—, tire, automobile, made with, 1,260,625
—, tire puncture healing composition made with, 1,128,282; 1,143,152; 1,233,753; 1,247,814
—, tobacco pipe made with, 1,455,396
—, tobacco pipe composition contg., 1,455,396
—, toilet articles made with, 1,482,358
—, toilet seat made with, 1,495,205; 1,495,206
—, *o*-toluidine, catalyst for the mfr. of, made with, 1,207,802
—, tomb stone made with, 1,130,223
—, torpedo, track, made with, 1,124,748
—, treating, 1,407,686; 1,427,911
—, —, acids for, 1,340,535
—, —, apparatus and method for, 1,338,613
—, tree, filling composition for cavities in contg., 1,160,701
—, trunks contg., 1,464,242
—, trunks made with, 1,160,362; 1,160,365
—, umbrella handle made with, 1,160,362; 1,160,365
—, urea-formaldehyde condensate made with, 1,458,543; 1,482,357
—, valve seat made with, 1,137,373
—, valve-stem packing contg., 1,429,455
—, vanadium(ic) oxide catalyst made with, 1,463,206
—, vanadium pentoxide catalyst, made with, 1,458,478
—, varnish made with, 1,200,731; 1,242,592; 1,242,593; 1,392,849; 1,413,144; 1,413,145; 1,443,935; 1,470,637
—, vulcanite substitute made with, 1,468,222
—, wall, fire resisting, made using, 1,198,004
—, wall board contg., 1,454,823; 1,466,246
—, wall board, made with, 1,473,981; 1,502,603; 1,511,949

Asbestos, wall covering made with, 1,141,897; 1,160 708; 1,482,336
—, water, grease, separation from using, 1,198,039
—, —, oil, separation from of using, 1,198,039
—, —, radio-active made with, 1,239,227
—, —, sterilization of using, 1,200,165
—, waterproof composition made with, 1,263,823
—, waterproofing made with, 1,123,401
—, waterproofing, alginates for, 1,415,850
—, waterproofing of, aluminum acetate for, 1,280,954
—, —, aluminum compound for, 1,280,954
—, —, aluminum linoleate for, 1,280,954
—, —, aluminum sulfate for, 1,280,954
—, —, casein for, 1,280,954
—, —, composition for, 1,136,370
—, —, linseed oil for, 1,280,954
—, —, linseed oil soap for, 1,280,954
—, —, process for, 1,280,954
—, water purified using, 1,244,989
—, welding electrode coating contg., 1,415,774; 1,441,685
—, whale oil, hydrogenation of, with catalyst made with, 1,275,405
—, white, electrode, welding, made with, 1,241,899
—, wick made with, 1,193,146
—, wick, non-combustible, made with, 1,178,850; 1,207,160
—, wire, enameling of, using, 1,495,632
—, —, insulated, made with, 1,233,808
—, wood, adhesive for, made with, 1,489,991
—, —, artificial, made with, 1,397,144; 1,407,747
—, —, fireproofing of, using, 1,487,255
—, —, waterproofing of, using, 1,487,255
—, wood substitute made with, 1,201,535; 1,484,370
—, writing board made with, 1,520,380
—, *see also Amphibole; Actinolite; Chrysotile; Mineral wool; Soapstone asbestos; Serpentine; Tremolite*
Asbestos basket, mfr. of, process for, 1,209,316
—, —, sodium silicate for, 1,209,316
—, —, wire fabric for, 1,209,316
Asbestos blocks, wall, fire resisting, made using, 1,198,004
Asbestos board, clutch facing made with, 1,429,266; 1,436,158
—, coffin made with, 1,234,180
—, corrugated, insulation, heat, made with, 1,179,773
—, gasket made with, 1,241,587
—, insulating-varnish, electric, for, 1,149,171
—, mfr. of, cement, Portland, for, 1,431,962
—, —, drier for, 1,431,962
—, —, lead resinate-tungate for, 1,431,962
—, —, linseed oil for, 1,431,962
—, —, manganese resinate for, 1,431,962
—, —, process for, 1,431,962; 1,439,991
—, —, "tox tungate solid" for, 1,431,962
—, —, tung oil for, 1,431,962
—, —, tung oil, polymerized, for, 1,431,962
—, roofing made with, 1,141,136
Asbestos cement, composition, molded coumarone resin in, 1,299,847
Asbestos cement, Dutch tile mfr. from, 1,440,882
—, electrode, welding, made with, 1,416,183
—, fuel, artificial, made with, 1,193,070
—, insulation, heat, made with, 1,286,602
—, mfr. of, asbestos for, 1,317,853
—, plastic composition contg., 1,361,759
Asbestos cement product, mfr. of, 1,423,000
Asbestos cement shingle, see Asbestos shingle
Asbestos cement slate, alloy coated, mfr. of, process for, 1,258,282
—, aluminum coated, mfr. of, process for, 1,258,282
—, brass coated, mfr. of, process for, 1,258,282
—, bronze coated, mfr. of, process for, 1,258,282
—, copper coated, mfr. of, process for, 1,258,282
—, iron coated, mfr. of, process for, 1,258,282
—, lead alloy, antimony in coated, mfr. of, process for, 1,258,282
—, —, tin in, coated, mfr. of, process for, 1,258,282
—, lead coated, mfr. of, process for, 1,258,282
—, metal coated, mfr. of, process for, 1,258,282
—, tin coated, mfr. of, process for, 1,258,282
—, zinc coated, mfr. of, process for, 1,258,282
Asbestos cloth, composite sheet made with, 1,245,196
—, insulation, sound, made with, 1,245,196
—, legging made from, 1,513,936
—, zinc made with, 1,107,309; Re-14,436
Asbestos composition, alloy coated, mfr. of, process for, 1,258,282
—, aluminum coated, mfr. of, process for, 1,258,282
—, brass coated, mfr. of, process for, 1,258,282
—, bronze coated, mfr. of, process for, 1,258,282
—, coating of, cresol for, 1,160,363
—, —, formaldehyde for, 1,160,363
—, —, phenol for, 1,160,363
—, —, phenol aldehyde condensate for, 1,160,363
—, —, process for, 1,160,363
—, copper coated, mfr. of, process for, 1,258,282
—, iron coated, mfr. of, process for, 1,258,282
—, lead alloy, tin in coated, mfr. of, process for, 1,258,282
—, lead coated, antimony in mfr. of, process for, 1,258,282
—, lead coated, mfr. of, process for, 1,258,282
—, metal coated, mfr. of, process for, 1,258,282
—, tin coated, mfr. of, process for, 1,258,282
—, zinc coated, mfr. of, process for, 1,258,282
Asbestos compound, dam-forming compound contg., 1,408,587
Asbestos container, candle made with, 1,174,934
—, night light made with, 1,174,934
Asbestos curtain, mfr. of, asbestos treated with alkali earth hydroxide for, 1,256,296
Asbestos cylinder, catalyst carrier, fat, hydrogenation of using, 1,141,266
—, —, oil, hydrogenation of using, 1,141,266
Asbestos diaphram, alkali hydroxide made using, 1,222,239
—, chlorine made with, 1,125,201; 1,222,239; 1,286,844
—, cleaning of, lactic acid for, 1,309,214
—, —, process for, 1,309,214
—, hydrogen made using, 1,222,239; 1,328,981; 1,346,849

Asbestos diaphram, oxygen made with, 1,328,981; 1,346,849
—, sodium carbonate made with, 1,125,201
—, sodium hydroxide made with, 1,286,844
Asbestos fabric, fabric, lubricating, made with, 1,182,103
—, lubricant made with, 1,182,103
—, rubber coated, mfr. of, apparatus for, 1,517,606
—, —, —, process for, 1,517,606
—, rubber impregnation of, 1,292,027
Asbestos felt, insulation, heat, made with, 1,148,447
—, mfr. of, asbestos treated with alkali earth hydroxide for, 1,256,296
—, roofing made with, 1,230,396
—, roofing material contg., 1,296,324
Asbestos fiber, coating composition contg., 1,423,821
—, film, motion picture made with, 1,226,655
—, furnace lining contg., 1,396,975
—, nitrogen tetroxide dissolved in water with, 1,433,004
—, phonograph record made with, 1,413,984
—, piston ring sealing composition contg., 1,363,563
Asbestos fiber E, stone, artificial, made with, 1,163,060
Asbestos flour, chlorine made with apparatus coated with composition contg., 1,186,936
—, sodium made with apparatus coated with composition contg., 1,186,936
Asbestos lumber, mfr. of, asbestos for, 1,299,798
—, —, barite for, 1,299,798
—, —, cement, Portland, for, 1,299,798
—, —, coal tar pitch for, 1,299,798
—, — fibrous material for 1,299,798
—, —, paracoumarone for, 1,299,798
—, —, process for, 1,299,798
—, —, resins for, 1,299,798
—, waterproofing, 1,431,962
Asbestos millboard, see Asbestos board
Asbestos paper, airplane covering material made with, 1,519,239
—, building material made with, 1,218,217
—, catalyst, nickel, made with, 1,326,767
—, catalyst, palladium, made with, 1,326,767
—, —, platinum, made with, 1,326,767
—, cigarette wrapper made with, 1,518,944
—, heater, electric, made with, 1,513,239
—, insulation, heat, made with, 1,178,027
—, iron, protecting of using, 1,277,755
—, mfr. of, asbestos for, 1,493,371; 1,518,944
—, —, carbohydrate for, 1,518,944
—, —, casein for, 1,518,944
—, —, cellulose acetate for, 1,518,944
—, —, cellulose ester for, 1,518,944
—, —, cellulose nitrate for, 1,518,944
—, —, dextrin for, 1,518,944
—, —, gelatin for, 1,518,944
—, —, glue for, 1,518,944
—, —, paper for, 1,493,371
—, —, paper pulp for, 1,518,944
—, —, paper pulp, rice for, 1,518,944
—, —, potassium nitrate for, 1,518,944
—, —, process for, 1,493,371; 1,518,944
—, —, size, animal, for, 1,518,944
Asbestos paper, mfr. of, soap, rosin, for, 1,518,944
—, —, sodium silicate for, 1,518,944
—, —, sugars for, 1,518,944
—, metal, coated, made with, 1,236,994
—, —, protecting of using, 1,277,755; 1,421,338; 1,432,512
—, metal article coated with, 1,421,338
—, pipe covering, weather-proofing of, using, 1,134,475
—, resistance, electric, made with, 1,513,239
—, roofing made with, 1,436,914
—, shingle, artificial, made with, 1,218,217
—, steel, coated, made with, 1,236,994
—, —, protecting of using, 1,277,755
Asbestos paper diaphragm, copper, electrodeposition of using, 1,198,024
Asbestos paste, blast furnace gas, burner for, made using, 1,222,922; 1,223,248; 1,223,249; 1,223,308
—, carbon monoxide, burner for, made using, 1,223,249
—, coal gas, burner for, made using, 1,222,922; 1,223,248; 1,223,249; 1,223,308
—, coke oven gas, burner for, made using, 1,222,922; 1,223,249; 1,223,308
—, fuel, gaseous, burner for, made using, 1,222,922; 1,223,248; 1,223,249; 1,223,308
—, gasolene, air gas, burner for, made using, 1,222,922; 1,223,249; 1,223,308
—, hydrocarbon, burner for, made using, 1,222,922; 1,223,249; 1,223,308
—, hydrogen, burner for, made using, 1,223,249
—, methane, burner for, made using, 1,223,249
—, natural gas, burner for, made using, 1,222,922; 1,223,249; 1,223,308
—, producer gas, burner for, made using, 1,222,922; 1,223,249; 1,223,308
Asbestos paste, water gas, burner for, made using, 1,222,922; 1,223,248; 1,223,249; 1,223,308
Asbestos powder, celluloid substitute made with, 1,181,858
—, paper made with, 1,161,696
Asbestos sand, asbestos cement made with, 1,317,853
—, asbestos from, apparatus for, 1,317,852
—, —, process for, 1,317,853
Asbestos sandings, wall board made with, 1,502,603
Asbestos sheet, typewriter having interposed between inking ribbon and type face an, 1,181,832
Asbestos shingle, fireproofing of using, 1,518,857
—, mfr. of, apparatus for, 1,204,083; 1,247,939
—, —, asbestos for, 1,244,148; 1,247,939
—, —, asbestos treated with alkali earth hydroxide for, 1,256,296
—, —, brick for, 1,244,148
—, —, cement for, 1,244,148
—, —, cement, hydraulic, for, 1,247,939
—, —, —, Portland, for, 1,244,148; 1,247,939
—, —, jute for, 1,247,939
—, —, process for, 1,244,148; 1,247,939
—, —, slate for, 1,244,148
Asbestos tailings, stone, artificial, made with, 1,163,060

Asbestos tape, clutch facing made with, 1,180,503
—, rubber impregnation of, 1,292,027
Asbestos wood, mfr. of, asbestos treated with alkali earth hydroxide for, 1,256,296
Asbestos wool, packing material contg., 1,355,984
Asbestos yarn, electrode, soldering, made with, 1,341,647
—, —, welding, made with, 1,341,647
—, rubber impregnation of, 1,292,027
—, wire-reinforced, mfr. of, process for, 1,439,166
Asbolite, see Wad
Ash, anthracite coal, see Coal, anthracite, ash
—, bituminous coal, composite fuel contg., 1,295,455; 1,295,456
—, bricks mfr. from, 1,440,234
—, building blocks mfr. from, 1,428,811
—, cementitious composition made with, 1,470,674
—, coal, bricks contg., 1,385,757
—, —, covering contg., 1,370,990
—, coal saving composition contg., 1,481,456
—, coke separation from, 1,466,083
—, fuel, artificial, made with, 1,256,494
—, —, recovery of from, 1,512,870
—, —, solid, made with, 1,481,456
—, foundry, recovery of brass from, 1,309,165
—, grouting made with, 1,237,921
—, insecticide made with, 1,230,648
—, insulation, heat, made with, 1,170,499
—, —, sound, made with, 1,419,665
—, kindling compound contg., 1,466,480
—, "locomotive," plastic composition contg., 1,419,665
—, lumber substitute mfr. with, 1,436,061
—, molded article made with, 1,170,499; 1,470,674
—, peat, drying of using, 1,143,497
—, plaster board made with, 1,419,665; 1,456,924
—, plastic made with, 1,466,083
—, plastic composition containing coal, 1,364,004
—, road paving made with, 1,234,360; 1,237,920; 1,237,921
—, roof covering contg., 1,369,911
—, stone, artificial, made with, 1,170,499; 1,466,083
—, treating, herring brine for, 1,466,083
—, treatment of smut in grain by, 1,375,529
—, vegetable, filtering material contg., 1,375,532
—, volcanic, plastic building material contg., 1,344,058
—, —, stone, artificial, made with, 1,135,176
—, —, *see also Volcanic ash*
—, wall covering contg., 1,369,911
—, wood, fertilizer contg., 1,440,836
—, —, *see also Wood ashes*
—, yeast preserved with, 1,420,557
—, *see also Cinders*
Ashes of roses, silk dyed with, 1,446,860
Ash weed, see Gout weed
Ash wood, mordanting solution made from, 1,340,246
—, nail extracted from, force required, 1,314,772
Asparacemic acid, see Aspartic acid
Asparagic acid, see Aspartic acid
Asparagin, beer, dealcoholized, flavored with, 1,455,397
—, media contg., 1,400,374
—, yeast food, 1,455,397
Asparagus, asparagin in, 1,455,397
—, food product made with, 1,222,062
—, soap, desiccated, made with, 1,222,062
—, treatment of, calcium hydroxide for, 1,242,728
—, —, process for, 1,242,728
—, —, sodium bicarbonate for, 1,242,728
Asparamide, see Asparagin
Aspartic acid, beer, de-alcoholized, flavored with, 1,455,397
—, insulation, electric, made with, 1,159,257
—, rubber substitute made with, 1,159,257; 1,159,258
—, salts of, insulation, electric, made with, 1,159,257
—, —, varnish made with, 1,159,257; 1,159,258
—, —, rubber substitute made with, 1,159,257; 1,159,258
—, succinic acid made with, 1,491,465
—, varnish made with, 1,159,257; 1,159,258
—, yeast food, 1,455,397
Aspergillus, benzoic acid, growing of, process for, 1,148,938
—, enzymes from, 1,391,219
—, enzymes prepared from, 1,460,736
—, formaldehyde immune, growing of, process for, 1,148,938
—, hydrofluoric acid, growing of, process for, 1,148,938
—, Japanese soy made with, 1,514,554
—, koji made with, 1,148,938
—, malt substitute made with, 1,148,938
—, moyashi made with, 1,148,938
—, salicylic acid, growing of, process for, 1,148,938
—, starch inverted by, 1,406,554; Re-15,776
—, *see also Fungi; Molds*
Aspergillus oniki, soy mfr. from rice with, 1,400,374
Aspergillus oryzae, acetone produced with, 1,437,697
—, benzoic acid, growing of, process for, 1,148,938
—, bread made with, 1,325,327
—, butyl alcohol produced with, 1,437,697
—, cattle feed made with, 1,267,081
—, dextrin made with, 1,267,081
—, ethyl alcohol made with, 1,267,081
—, formaldehyde, immune, growing of, process for, 1,148,938
—, hydrofluoric acid, growing of, process for, 1,148,938
—, koji made with, 1,148,938
—, maltose made with, 1,267,081
—, malt substitute made with, 1,148,938
—, moyashi made with, 1,148,938
—, salicylic acid, growing of, process for, 1,148,938
—, soy brewed with, 1,394,236
—, starch treated with, 1,329,214
—, *see also Fungus*

Aspergillus oryzae spores, diastatic product made with, 1,192,584
—, koji made with, 1,192,584
—, *see also Moyashi*
Aspergillus penicilliam, china grass, de-sizing of, using, 1,421,613
—, cotton, de-sizing of, using, 1,412,613
—, enzymes produced from, 1,421,613
—, ramie, desizing of, using, 1,421,613
—, silk, de-gumming of, using, 1,421,613
—, textile, desizing of, using, 1,421,613
—, diastatic, product made with, 1,192,584
—, koji made with, 1,192,584
Asphalite, sheet flooring mfr. from, 1,382,595
—, solvent for, naphtha as, 1,382,595
Asphalt, abrasive wheel impregnated with, 1,403,416
—, acacia as emulsifier of, 1,440,356
—, acetylene from, cracking process for, 1,313,009
—, acid, organic, made with, 1,517,968
--, acid-proof material made with, 1,513,133
—, adhesion of, preventing, cellulose base for, 1,421,338
—, adhesive made with, 1,510,472; 1,510,591
—, adhesive paper made with, 1,358,834
—, agar-agar as emulsifier of, 1,440,356
—, air-blown, asphaltic composition made with, 1,209,238
—, airplane fabric made with, 1,427,941
—, albumen as emulsifier of, 1,440,356
—, alcohols made with, 1,517,968
—, aldehydes made with, 1,517,968
—, alkali-proof material made with, 1,513,133
—, alum, action of on, 1,252,433
—, aluminum chloride made with, 1,217,471; 1,508,451
—, aluminum compound made with, 1,229,611
—, aluminum sulfate made with, 1,229,611
—, aluminum sulfate, action of on, 1,252,433
—, ammonia made with, 1,229,611
—, ammonium tannate, as emulsifier of, 1,440,356
—, anthracene from, cracking process for, 1,313,009
—, anthracite culm briquet made with, 1,212,291
—, antifouling composition contg., 1,421,914
—, antimony made with, 1,243,681
—, arsenic made with, 1,243,681
—, artificial, bituminous material made with, 1,506,371
—, —, flooring made with, 1,506,371
—, —, leather made with, 1,200,146
—, —, mfr. of, 1,433,137; 1,464,480; 1,464,481; 1,464,482
—, —, paint made with, 1,127,831
—, —, paint, waterproof, made with, 1,506,371
—, —, road material of, 1,433,137
—, —, road paving made with, 1,187,314
—, —, roofing made with, 1,302,810
—, —, waterproofing made with, 1,302,810
—, —, *see also Petroleum pitch*
—, asbestos band contg., 1,301,612
—, asphalt cement made with, 1,163,593
—, asphaltene in, extracting, carbon tetrachloride for, 1,452,309; 1,452,310
Asphalt, asphaltene in, extracting, process for, 1,452,309; 1,452,310
—, bag, paper, made with, 1,363,196
—, —, waterproof, made with, 1,363,196
—, balloon fabric made with, 1,427,941
—, balsade palmo wood treatment of, using, 1,203,577
— —, waterproofing of, using, 1,203,577
—, balsa wood, fireproofing for, made with, 1,194,558
—, —, waterproofing for, made with, 1,194,558
—, Barber Trinadad, ball mill, lining for, made with, 1,521,169
—, barium carbide made with, 1,224,788; 1,327,738
—, battery made with, 1,375,012
—, battery, dry, made with, 1,137,030; 1,140,826; 1,143,181; 1,196,225; 1,215,774; 1,225,306; 1,289,433; Re-15,846; 1,366,095; 1,402,224; 1,468,574; 1,500,477; 1,501,084
—, —, —, sealed with, 1,328,027; 1,431,859
—, —, primary, made with, 1,196,611; 1,215,774
—, —, storage made with, 1,375,012; 1,500,221; 1,500,222
—, —, —, container for, made with, 1,156,122; 1,197,022; 1,285,303; 1,512,313
—, —, —, electrode for, made with, 1,500,219
—, —, —, jar for, made with, 1,276,481
—, —, —, name plate for, made with, 1,492,464
—, —, —, separator for, made with, 1,366,223; 1,500,220
—, battery boxes of, 1,467,311
—, battery electrode made with, 1,366,095
—, belt, woven, impregnated with, 1,310,867
—, belt dressing made with, 1,214,157
—, belting made with, 1,179,357; 1,249,019
—, belting, coating for, contg., 1,305,222
—, benzene made with, 1,224,788; 1,373,391
—, benzene from, cracking process for, 1,313,009
—, Bermuda, paint made with, 1,127,831
—, —, road building with, Re-15,401 (956,009)
—, Bermudez, roofing made with, 1,499,308
—, —, tank lining, non-corroding, contg., 1,305,678
—, Bermudez lake, asphalt cement made with, 1,163,593
—, —, road paving made with, 1,163,593
—, —, sulfur content of, 1,163,593
—, binder contg., 1,221,259; 1,258,272
—, binder, waterproof, made with, 1,258,103
—, binder of, plaster of Paris in, 1,372,467
—, binder of sulfur and, 1,264,932
—, binder tape made with, 1,167,466
—, bituminous composition contg., 1,302,810; 1,329,232
—, bituminous composition, colored, made with, 1,417,838
—, —, fibrous, made with, 1,156,122; 1,177,267; 1,201,758; 1,240,524
—, bituminous emulsion made with, 1,417,835; 1,517,075
—, bituminous material made with, 1,417,835; 1,450,685; Re-15,944
—, blackboard, cleaner for, made with, 1,223,846
—, —, polish for, made with, 1,223,846
—, block made with, 1,269,649; 1,320,709

Asphalt, block impregnated with, mfr. of, apparatus for, 1,229,439
—, —, —, process for, 1,229,439
—, "blown," pavement of, 1,364,621
—, —, roofing made with, 1,417,841
—, board, composite, made with, 1,345,081
—, boiler economizer, corrosion prevented of using, 1,516,341
—, bone black made with, 1,518,072
—, brake lining contg., 1,436,362
—, brake lining made with, 1,277,108; 1,426,842; 1,429,267; 1,452,555
—, brake lining of cotton impregnated with, 1,452,555
—, brake lining impregnated with, 1,354,996
—, brass, briquets of, made with, 1,123,719
—, —, etching of, with, 1,276,599
—, brick made with, 1,220,292; 1,220,293; 1,269,649; 1,320,709
—, brick impregnated with, 1,261,114
—, brick, impregnation of with, apparatus for, 1,176,284
—, —, —, process for, 1,176,284
—, —, waterproofing of, using, 1,150,481
—, briquet made with, 1,123,719; 1,274,480; 1,290,992; 1,452,992
—, bronze powder binder, 1,465,107
—, brush, electric generator, made with, 1,366,095
—, building block made with, 1,190,615; 1,265,655
—, building felt made with, 1,511,475
—, building material contg., 1,441,861
—, building material made with, 1,183,694; 1,288,158; 1,288,159; 1,353,619; Re-15,949; 1,362,888; 1,382,095; 1,476,078; 1,488,186; 1,498,401; 1,505,206
—, building material, finish coating for applied with, 1,282,460
—, building paper made with, 1,515,821
—, building wall made with, 1,180,065
—, buoyant composition made with, 1,285,888
—, burial vault made with, 1,238,760; 1,478,769
—, butene made with, 1,517,968
—, butyraldehyde made with, 1,517,968
—, butyric acid made with, 1,517,968
—, cable, coating for contg., 1,305,222
—, cables impregnated with, 1,418,369
—, calcium carbide made with, 1,224,788; 1,327,738
—, calcium carbide, blocks of, made with, 1,486,618
—, California, emulsion, bituminous, made with, 1,259,223
—, —, paint made with, 1,127,831
—, —, road building with, Re-15,401 (956,009)
—, —, road paving made with, 1,259,223
—, —, roofing made with, 1,259,223
—, caoutchouc composition contg., 1,437,487
—, carbenes in, extracting, carbon bisulfide for, 1,452,309; 1,452,310
—, —, —, process for, 1,452,309; 1,452,310
—, carbides made with, 1,224,788
—, carbon, decolorizing, made with, 1,478,986; 1,478,987
—, carborundum made with, 1,224,788; 1,327,738
Asphalt, cardboard made with, 1,320,549
—, cardboard waterproofed using, 1,140,826
—, casein as emulsifier of, 1,440,356
—, casein composition made with, 1,437,487
—, catalyst, chlorination, made with, 1,520,506
—, cathode blank made with, 1,163,337
—, cellulose xanthate made with, 1,251,237
—, cement made with, 1,258,103; 1,450,685; Re-15,944; 1,507,379
—, cement, bag for, made with, 1,363,196
—, —, plastic, made from, 1,253,454
—, —, waterproof, contg., 1,305,645
—, ceramic ware, gold decorated, made with, 1,438,799
—, chains, coating for contg., 1,305,222
—, charcoal, artificial, made with, 1,478,986; 1,478,987
—, chlorination, catalyst for, made with, 1,520,506
—, circuit breaker made with, 1,366,095
—, clams, wrapping material for, made with, 1,341,955
—, clay as emulsifier of, 1,440,356
—, cleaner made with, 1,223,846; 1,276,481
—, cloth impregnated with, apparatus for, 1,277,986
—, —, process for, 1,277,986; 1,286,057
—, clutch facing made with, 1,426,842
—, clutch ring mfr. with, 1,447,347
—, coal, bituminous, briquettes of, made with, 1,488,606
—, —, briquetting of, using, 1,207,180; 1,224,641
—, —, lignite, briquettes of, made with, 1,488,606
—, coal briquet made with, 1,123,719; 1,452,992; 1,458,716
—, coal dust, briquettes of, made with, 1,488,606
—, coal, slack, briquettes of, made with, 1,488,606
—, coating, acid-proof, made with, 1,185,722
—, —, viscose for, 1,327,933
—, coating composition made with, 1,185,722; 1,189,550; 1,189,551; 1,353,003
—, coating composition for, mfr. of, carbon bisulfide for, 1,327,933
—, —, —, cellulose for, 1,327,933
—, —, —, chalk for, 1,327,933
—, —, —, flint for, 1,327,933
—, —, —, process for, 1,327,933
—, —, —, silica for, 1,327,933
—, —, —, soap for, 1,327,933
—, —, —, soap chips for, 1,327,933
—, —, —, soapstone for, 1,327,933
—, —, —, soda cellulose for, 1,327,933
—, —, —, sodium bicarbonate for, 1,327,933
—, —, —, sodium chloride for, 1,327,933
—, —, —, sodium hydroxide for, 1,327,933
—, —, —, viscoid for, 1,327,933
—, —, —, viscose for, 1,327,933
—, coffee container made with, 1,203,832
—, coke made with, 1,175,079; 1,213,763
—, coke, briquetting of using, 1,207,180
—, colloidal, petroleum, removal from of, 1,506,115
—, comminuting, 1,402,177
—, composite sheet made with, 1,227,520
—, composition contg., 1,276,507; Re-14,570

Asphalt, composition contg., vegetable fiber, wood fiber and, 1,370,647
—, compressed, mfr. of, 1,433,137
—, concrete, coating composition for, made with, 1,189,550; 1,189,551
—, —, expansion joint for, made using, 1,239,573; 1,279,918; 1,280,572
—, —, filling crevices in, using, 1,513,382
—, concrete lined with, mfr. of, process for, 1,175,163
—, concrete waterproofed with, 1,150,481; 1,207,726; 1,383,749; 1,505,112
—, concrete substitute made with, 1,269,649
—, concrete tank, acid-proof lining for, made with, 1,152,783
—, concrete tank lined with, 1,162,515
—, condenser, electric, impregnation with of, process for, 1,286,057
—, conduit made with, 1,382,740
—, conduit, electric, made with, 1,505,206
—, construction material made with, 1,338,037; 1,409,767; 1,438,966
—, container made with, 1,288,073
—, container, paper, made with, 1,173,267; 1,173,268; 1,188,432
—, copper, etching of with, 1,276,599
—, copper compound made with, 1,229,611
—, core made with, 1,285,081; 1,477,064
—, core binder made with, 1,221,259
—, corncob pulp binder, 1,427,378
—, corrugated board made with, 1,519,280; 1,519,281
—, coumarone-rubber article made with, 1,248,226
—, covering contg., 1,370,990
—, crabs, wrapping material for, made with, 1,341,955
—, cracking, 1,392,788; 1,394,481
—, cracking of, apparatus for, 1,212,620
—, —, calcium chloride for, 1,212,620
—, —, lead for, 1,212,620
—, —, process for, 1,212,620; 1,313,009
—, —, zinc chloride for, 1,212,620
—, Cuba, asphalt cement made with, 1,163,593
—, —, road paving made with, 1,163,593
—, —, roofing made with, 1,499,308
—, —, sulfur content of, 1,163,593
—, dental cement made with, 1,507,379
—, dextrin as emulsifier of, 1,440,356
—, diaphragm made with, 1,366,095
—, die, metallic, made with, 1,157,493
—, die plate made with, 1,376,365
—, Diesel engine fuel made with, 1,340,855
—, di-methylene from, cracking process for, 1,313,009
—, distillation of, apparatus for, 1,212,620
—, —, calcium chloride for, 1,212,620
—, —, lead for, 1,212,620
—, —, process for, 1,212,620; 1,450,327
—, —, zinc chloride for, 1,212,620
—, distributing, apparatus for molten, 1,378,637
—, door mat made with, 1,194,874
—, drying oil made with, 1,256,535
—, dust layer contg., 1,450,685
—, dyeing wood by impression in, 1,447,528
—, dye oil from, 1,409,083
—, Egyptian, battery, dry, made with, 1,196,225
Asphalt, electrode, projector, made with, 1,165,619
—, emulsified, composition made with, 1,469,563
—, —, road building with, Re-15,401 (956,009)
—, —, shingle waterproofed with, 1,448,155
—, emulsifying, Re-15,401 (956,009)
—, emulsifying of, alkali sludge sulfonate for, 1,373,661
—, —, apparatus for, 1,384,805
—, —, oleic acid for, 1,373,661
—, —, process for, 1,373,661; 1,440,356
—, —, resin for, 1,373,661
—, —, resin oil for, 1,373,661
—, —, soap for, 1,384,805
—, —, soap, sludge sulfonate for, 1,373,661
—, —, sludge sulfonate for, 1,373,661
—, —, sludge sulfonic acid for, 1,373,661
—, —, water for, 1,373,661
—, emulsion contg., 1,461,445; 1,479,042
—, —, linoleum substitute made with, 1,479,044
—, —, mfr. of, 1,464,928
—, —, preparing, 1,408,224; 1,417,835
—, —, wall board made with, 1,479,044
—, emulsion, bituminous, made with, 1,258,103
—, emulsion, sulfite liquor and, mfr. of, 1,450,685
—, emulsion K-B made with, 1,515,821
—, enamel made with, 1,276,481
—, esters made with, 1,517,968
—, etching, electrolytic, using, 1,289,022
—, etching using, 1,288,775
—, etching ground of printing plates, 1,430,347
—, etching resist contg., 1,376,365
—, ethylene from, cracking process for, 1,313,009
—, expansion joint made with, 1,248,909
—, explosives contg., 1,282,229
—, explosive cap protector made with, 1,163,965
—, fabric made with, 1,194,874; 1,503,337
—, fabric, impregnated, made with, 1,340,855
—, —, waterproofing of, using, 1,279,918; 1,500,537; 1,502,598
—, fatty acids made using, 1,517,968
—, felt, building, made with, 1,474,423
—, —, composite, made with, 1,503,613
—, —, tarred, made with, 1,321,669
—, —, waterproofed, made with, 1,288,158; 1,288,159
—, felt coated with, 1,331,365
—, felt contg., alkali treatment of, 1,293,293
—, —, recovery of, 1,293,293
—, felt impregnated with, apparatus for, 1,277,986; 1,311,862
—, —, preparing sheets of, 1,360,313
—, —, process for, 1,277,986
—, fiber, wood, binder for of sulfur and, 1,264,932
—, fiber board made with, 1,490,362
—, fiber board, weatherproof, made with, 1,362,888
—, filament, artificial, viscose, made with, 1,251,237
—, filamentary form, insultation, heat, made with, 1,289,892
—, —, mfr. of, apparatus for, 1,289,892
—, —, —, talc for, 1,289,892
—, fireproofing made with, 1,194,558; 1,507,181
—, fireproofing of, alcohol for, 1,388,829
—, —, amyl acetate for, 1,388,826; 1,388,829
—, —, antimony chloride, basic, for, 1,388,829

Asphalt, fireproofing of, antimony oxychloride for, 1,388,829
—, —, antimony salt for, 1,388,829
—, —, antimony sulfate for, 1,388,826; 1,388,829
—, —, antimony trichloride for, 1,388,826; 1,388,829
—, —, carbon tetrachloride for, 1,388,826; 1,388,829
—, —, chlornaphthalene for, 1,398,991
—, —, lime for, 1,388,826; 1,388,829
—, —, process for, 1,388,826; 1,388,829
—, —, sodium carbonate for, 1,388,826; 1,388,829
—, —, varnish for, 1,388,829
—, fire resistant, chlorinated naphthalene in, 1,432,512
—, —, coating fibrous material with, 1,432,512
—, —, coating metals with, 1,432,512
—, —, mfr. of chlornaphthalene for, 1,398,991
—, fish, wrapping material for, made with, 1,341,955
—, floor covering made with, 1,131,317; 1,131,595; 1,156,122; 1,182,414; 1,193,843; 1,263,823; 1,302,810; 1,430,392
—, flooring made with, 1,417,840; 1,463,611
—, flooring, stable, made with, 1,281,444
—, flotation process using, 1,350,364
—, foil, composite, made with, 1,503,613
—, food product, wrapping material for, made with, 1,341,955
—, formaldehyde made with, 1,517,968
—, friction fabric made with, 1,429,267
—, friction facing made with, 1,466,907; 1,498,386
—, friction material ingredient, 1,429,267
—, fuel contg., 1,273,619; 1,305,392
—, fuel, Diesel engine, made with, 1,191,072
—, solid, made with, 1,167,373
—, fuel briquette contg., 1,446,322
—, fuel briquette made with, 1,212,291; 1,507,679; 1,512,427
—, Fuller's earth in binder of, 1,372,467
—, fumes from removing, apparatus for, 1,348,140
—, gasket made with, 1,248,226
—, gasolene made with, 1,373,391; 1,517, 968
—, gas plant purifier sponge contg., 1,472,951
—, gas purifying sponge contg., 1,398,613
—, gears, coating for contg., 1,305,222
—, gelatin, as emulsifier of, 1,440,356
—, Genasco, bituminous material made with, 1,329,232
—, glass, cleaner for, made with, 1,223,846
—, —, gold decorated, made with, 1,205,728; 1,438,799
—, —, polish for, made with, 1,223,846
—, glue as emulsifier of, 1,440,356
—, gold, ceramic ware decorated with, made with, 1,438,799
—, —, glass decorated with, made with, 1,205,728; 1,438,799
—, granite, cleaner for, made with, 1,223,846
—, —, polish for, made with, 1,223,846
—, grouting by means of, 1,327,268
—, gum, roofing made with, 1,197,307
—, —, shingle made with, 1,197,307
—, —, *see also Gum asphalt*
—, gums as emulsifier of, 1,440,356
Asphalt, ham, wrapping material for, made with, 1,341,955
—, handling, apparatus for, 1,378,637
—, hard, enamel made with, 1,205,845
—, heater, electric, made with, 1,507,379
—, heat insulator contg., 1,448,386
—, heat-insulating material contg., 1,456,083
—, hemicellulose as emulsifier of, 1,440,356
—, Henasco, battery, storage, container for, made with, 1,329,232
—, hexa-methylene from, cracking process for, 1,313,009
—, hollow article made with, 1,382,740
—, hydrobenzene from, cracking process for, 1,313,009
—, hydrocarbon, olefin, made with, 1,517,968
—, —, paint contg., 1,385,033; 1,385,034
—, —, separation from of, apparatus for, 1,278,023
—, —, —, benzene for, 1,278,023
—, —, —, Fullers earth for, 1,278,023
—, —, —, gasolene for, 1,278,023
—, —, —, process for, 1,278,023
—, —, unsaturated, from, 1,305,790
—, hydrogen sulfide made with, 1,243,681
—, identification tag made with, 1,246,753
—, illustration plate for, made using, 1,143,991
—, indurated material made with, 1,277,322
—, insulating board contg., 1,449,221
—, insulating material contg., 1,332,860
—, insulation made with, 1,248,909
—, insulation, electric, made with, 1,156,122; 1,179,357; 1,183,423; 1,183,640; 1,194,201; 1,246,810; 1,248,638; 1,279,918; 1,280,129; 1,288,073; 1,306,520; 1,332,860; 1,340,855; 1,346,397; 1,372,114; 1,392,849; 1,398,143; 1,448,386; 1,503,337
—, —, fire-proof, made with, 1,183,694
—, —, heat, made with, 1,162,450; 1,189,780; 1,288,073; 1,439,653; 1,486,535; 1,489,567; 1,503,337; 1,509,478
—, iron, coating of using, 1,195,090; 1,288,734; 1,328,282
—, —, paint of, using, 1,328,282
—, —, protecting of using, 1,277,755
—, —, rustproofing of, using, 1,147,971; 1,276,481; 1,288,734
—, iron ore, briquetting of using, 1,207,180
—, iron sulfate, action of on, 1,252,433
—, isinglass as emulsifier of, 1,440,356
—, japan made with, 1,294,422; 1,294,627; 1,357,688; 1,472,716
—, joint, water-tight, made with, 1,289,308
—, jointing composition contg., 1,506,044
—, Kansas, paint, made with, 1,127,831
—, —, road building with, Re-15,401 (956,009)
—, kaolin as emulsifier of, 1,440,356
—, Karl, pipe made with, 1,124,045
—, —, plastic made with, 1,124,045
—, —, railroad tie made with, 1,124,045
—, ketones made with, 1,517,968
—, lath, plaster, made with, 1,518,337
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—, —, —, viscose, made with, 1,251,237
—, —, waterproofing of, using, 1,167,327
—, —, —, composition for contg., 1,277,242

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—, leather board impregnation of with, 1,277,322
—, leather dressing made with, 1,214,157
—, leather impregnation of with, 1,277,322
—, leather product made with, 1,192,460
—, leather substitute contg., 1,409,301
—, lightning arrester, electrode for, made with, 1,366,095; 1,488,936
—, lignite briquette made with, 1,452,992
—, limestone contg., 1,391,710
—, limestone, asphaltic, artificial, made with, 1,237,852
—, linoleum made with, 1,131,317; 1,132,647
—, linoleum substitute made with, 1,479,044
—, linseed oil substitute made with, 1,256,535
—, lithographic "cover" ink contg., 1,367,521
—, lithographic engraving made using, 1,129,901
—, lithographic plate made with, 1,162,168
—, lobsters, wrapping material for, made with, 1,341,955
—, lumber, artificial, made with, 1,353,619; Re-15,949
—, maleic acid made with, 1,517,968
—, malic acid made with, 1,517,968
—, mfr. of, air for, 1,385,511
—, —, apparatus for, 1,162,729; 1,182,601; 1,250,052; 1,385,511
—, —, asphalt, Trinidad, for, 1,385,511
—, —, asphalt emulsion for, 1,176,006
—, —, bitumen for, 1,176,006; 1,385,511
—, —, dust for, 1,176,006
—, —, elaterite for, 1,385,511
—, —, gilsonite for, 1,385,511
—, —, grahamite for, 1,385,511
—, —, limestone for, 1,176,006
—, —, naphthalene for, 1,125,422
—, —, petrolene for, 1,385,511
—, —, petroleum for, 1,135,506; 1,162,729
—, —, petroleum, Illinois crude, for, 1,125,422
—, —, —, Lima crude, for, 1,125,422
—, —, —, Pennsylvania crude, for, 1,125,422
—, —, petroleum residuum for, 1,385,511
—, —, petroleum residuum, California, for, 1,385,511
—, —, —, Illinois, for, 1,385,511
—, —, —, Mexican, for, 1,385,511
—, —, —, mid-continental, for, 1,385,511
—, —, process for, 1,125,422; 1,162,729; 1,176,006; 1,182,601; 1,250,052; 1,332,359; 1,385,511
—, —, sludge sulfonic acid tar for, 1,271,387
—, —, Spanish white for, 1,176,006
—, —, trass for, 1,176,006
—, —, whiting for, 1,176,006
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—, —, road paving made with, 1,163,593
—, —, sulfur content of, 1,163,593
—, marble, cleaner for, made with, 1,223,846
—, —, polish for, made with, 1,223,846
—, marshmallow, as emulsifier of, 1,440,356
—, meat, wrapping material for, made with, 1,341,955
—, meltable, mfr. from non-meltable asphaltites, 1,332,359
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—, —, coating of using, 1,195,090
—, —, etching of using, 1,276,599
—, —, protecting of using, 1,277,755; 1,421,338; 1,432,512
—, —, water-proofing of, made with, 1,276,481
—, metal article coated with, 1,421,338
—, metal coated with, 1,243,808; 1,289,537; 1,418,347; 1,418,348; 1,418,349
—, —, composition contg., 1,169,931
—, metal coating contg., mfr. of, process for, 1,271,387
—, Mexican, emulsion, bituminous, made with, 1,259,223
—, —, —, paper, waterproof, made with, 1,479,043
—, —, —, sheet, composite, made with, 1,479,043
—, —, paper, waterproof, made with, 1,479,043
—, —, road paving made with, 1,259,223
—, —, roofing made with, 1,259,223; 1,417,841
—, —, sheet, composite, made with, 1,479,043
—, mineral rubber made with, 1,217,157
—, molded article made with, 1,190,615; 1,346,397; 1,358,394; 1,368,753; 1,372,114; 1,386,276; 1,392,849; 1,398,143; 1,517,360
—, molded article of paper pulp and, 1,386,276
—, molding of, apparatus for, 1,327,354
—, —, process for, 1,327,354
—, —, soapstone for, 1,327,354
—, molten, apparatus for distributing, 1,378,637
—, —, apparatus for keeping, 1,378,637
—, mortar, acid proof, contg., 1,456,303
—, —, waterproofing of, using, 1,150,481
—, naphthalene from, cracking process for, 1,313,009
—, naphthene from, cracking process for, 1,313,009
—, natural, bituminous material, made with, 1,506,371
—, —, drier contg., 1,278,290
—, —, flooring made with, 1,506,371
—, —, leather made with, 1,200,146
—, —, linseed oil substitute made with, 1,278,290
—, —, paint made with, 1,127,831
—, —, paint, waterproof, made with, 1,506,371
—, —, paint vehicle made with, 1,278,290
—, —, road paving made with, 1,187,314
—, —, roofing made with, 1,302,810
—, —, waterproofing made with, 1,302,810
—, oil, recovered, for mfr. of, 1,425,289
—, —, spark preventing composition contg., 1,469,039
—, oil cloth made with, 1,131,317
—, oil gas made with, 1,517,968
—, Oklahoma, binder contg., 1,258,272
—, —, shoe bottom filler contg., 1,258,272
—, ore, briquetts of, made with, 1,123,719
—, —, briquetting of using, 1,207,180
—, ore concentration by adhesive contg., 1,448,928
—, oxalic acid made with, 1,517,968
—, oxidized, pavement of, 1,364,620; 1,364,621; 1,364,622
—, —, waterproofing process using, 1,417,837

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—, packing made with, 1,210,575; 1,248,909
—, pail made with, 1,277,322
—, paint made with, 1,145,186; 1,179,176; 1,194,558; 1,226,889; 1,256,535; 1,340,855; 1,344,861; 1,362,241; 1,365,882; 1,464,224; 1,507,181
—, paint, antifouling, made with, 1,145,186; 1,421,914
—, —, cement, made with, 1,256,535
—, —, concrete made with, 1,256,535
—, —, metal coating, contg., 1,379,542
—, paint for, mfr. of, process for, 1,410,790
—, paint for covering, formula, 1,410,790
—, paper made with, 1,503,613
—, paper, composite, made with, 1,503,613
—, —, sizing of using, 1,194,866
—, —, waterproof, made with, 1,479,043; 1,517,075
—, paper article, paste for, made with, 1,450,685; Re-15,944
—, paper board impregnation of with, 1,277,322
—, paper board made with, 1,503,957
—, paper conduit made with, 1,180,625
—, paper impregnated with, apparatus for, 1,277,986
—, —, process for, 1,277,322; 1,277,986; 1,286,057
—, paper waterproofed with, 1,352,796; 1,396,269
—, paraffin from cracking process for, 1,313,009
—, paving blocks from, 1,405,302
—, paving block, impregnation of with, apparatus for, 1,176,284
—, —, —, process for, 1,176,284
—, paving composition contg., rubber and, 1,395,396
—, paving compound consisting of fibers and, 1,340,181
—, paving material contg., 1,327,726; 1,364,037
—, paving material contg., metallic salts and, 1,328,310
—, pectins as emulsifier of, 1,440,356
—, penetration-determining device for, 1,366,571
—, penta-methylene from, cracking process for, 1,313,009
—, peptization of, 1,447,008
—, petrolene made with, 1,207,843
—, petrolene in, extracting, naphtha for, 1,452,309; 1,452,310
—, —, —, process for, 1,452,309; 1,452,310
—, petroleum residuum, asphaltic composition made with, 1,209,238
—, phenol aldehyde condensate made with, 1,187,230; 1,358,394; 1,368,753
—, phenol aldehyde condensate, compound of and, properties of, 1,133,083
—, phonograph record made with, 1,134,774; 1,175,728; 1,276,481; 1,276,507; Re-14,570; 1,404,792
—, phonograph record blank of, mfr. of, 1,450,739
—, phosphates treated with, 1,396,149
—, piling, preserving of using, 1,512,659; 1,512,660
Asphalt, pipe made with, 1,156,122; 1,320,709; 1,505,206
—, plaster receiving board made with, 1,510,233
—, plastic made with, 1,150,481; 1,190,615; 1,211,382; 1,238,528; 1,240,252; 1,240,253; 1,280,129; 1,305,125; 1,346,397; 1,379,590; 1,505,206; 1,507,379
—, plastic composition contg., 1,346,397; 1,379,590; 1,446,178
—, plastic ingredient, 1,365,882
—, plastic material made with, 1,320,709
—, plastic material ingredient, 1,425,784
—, plate, die-, made with, 1,157,493
—, —, lithographic, made with, 1,185,506
—, —, printing with, 1,276,599
—, platinum made with, 1,243,681
—, polish made with, 1,223,846; 1,276,481
—, poly-methylene from, cracking process for, 1,313,009
—, polysaccharide as emulsifier of, 1,440,356
—, porcelain made with, 1,507,379
—, post made with, 1,269,649
—, potassium aluminate made with, 1,189,254
—, printers blanket made with, 1,246,231
—, printing plate made with, 1,219,332; 1,302,919
—, printing plate, halftone, made with, 1,507,049
—, —, planographic, made with, 1,215,493
—, producing, acid sludge for, 1,418,781
—, production of, apparatus for, 1,190,633
—, —, process for, 1,190,633
—, —, water for, 1,190,633
—, propene made with, 1,517,968
—, propionaldehyde made with, 1,517,968
—, propionic acid made with, 1,517,968
—, protecting metal with, 1,366,999
—, proteins as emulsifier of, 1,440,356
—, pulleys, coating for contg., 1,305,222
—, pulp board made with, 1,277,322
—, pyridine from, cracking process for, 1,313,009
—, quinoline from, cracking process for, 1,313,009
—, quinones made with, 1,517,968
—, railroad ties coated with, 1,418,708
—, railroad tie made with, 1,250,194
—, record, phonograph, made with, 1,249,414; 1,404,792; 1,513,120; 1,516,469
—, refractory made with, 1,227,909
—, removing from hydrocarbons, 1,431,246
—, resin, artificial, made with, 1,517,968
—, resins as emulsifier of, 1,440,356
—, resistance, electric, made with, 1,366,095; 1,507,379
—, road binder contg., 1,450,685
—, road composition contg., 1,466,928
—, road construction, plastic for, contg., 1,372,467
—, road material contg., 1,319,918
—, road pavement made with, 1,199,751; 1,225,055
—, road pavement, filling crevices in, using, 1,513,382
—, road paving contg., 1,252,722; 1,261,845; 1,320,672

Asphalt, road paving contg., mfr. of, process for, 1,271,387
—, road paving made with, 1,156,122; 1,158,418; 1,163,593; 1,164,041; 1,171,236; 1,190,615; 1,195,273; 1,198,107; 1,206,056; 1,220,292; 1,220,293; 1,220,680; 1,220,681; 1,220,682; 1,230,894; 1,239,762; 1,240,252; 1,240,253; 1,247,105; 1,252,433; 1,258,103; 1,265,655; 1,279,918; 1,320,709; 1,328,310; 1,340,855; 1,364,620; 1,450,685; Re-15,944; 1,472,393; 1,486,015; 1,495,260; 1,519,560
—, road paving, concrete, expansion joint for, made with, 1,280,572
—, —, resurfacing of, using, 1,492,255
—, —, spacing plank for, made with, 1,207,524
—, road paving binder for sulfur and, 1,264,932
—, road paving expansion joint made with, 1,220,766; 1,248,909
—, rock, pipe made with, 1,124,045
—, —, plastic made with, 1,124,045
—, —, railroad tie made with, 1,124,045
—, —, separation from of, 1,190,633
—, —, *see also Rock asphalt*
—, rock asphalt treated with, process for, 1,452,898
—, rock formations, sealing crevices in, using, 1,327,269
—, roof covering contg., 1,369,911
—, roof pipe flashing made with, 1,511,884
—, roofing made with, 1,123,727; 1,134,086; 1,156,122; 1,157,664; 1,157,665; 1,158,266; 1,164,965; 1,167,195; 1,181,827; 1,182,414; 1,187,259; 1,188,495; 1,197,307; 1,201,758; 1,211,382; 1,219,652; 1,220,966; 1,222,594; 1,226,738; 1,230,396; 1,236,462; 1,238,805; 1,240,524; 1,248,170; 1,248,909; 1,250,622; 1,258,103; 1,263,823; 1,269,905; 1,269,906; 1,279,918; 1,286,077; 1,288,158; 1,289,328; 1,295,360; 1,295,361; 1,296,984; Re-15,489; 1,302,810; 1,321,669; 1,328,267; 1,330,443; 1,338,037; 1,340,855; 1,357,920; 1,362,887; 1,374,187; 1,376,092; 1,388,685; 1,409,767; 1,411,330; 1,417,838; 1,417,840; 1,436,914; 1,463,611; 1,472,227; 1,488,186; 1,488,447; 1,489,254; 1,494,380; 1,498,401; 1,511,475; 1,513,969; 1,515,821; 1,517,860; 1,518,988; 1,520,014
—, roofing, felt, made with, 1,305,404
—, —, mineral, surface made with, 1,314,753
—, —, recovery of scrap, 1,293,293
—, —, slate surfaced made with, 1,314,753
—, —, waterproofing of, using, 1,150,481
—, roofing composition contg., 1,418,905
—, roofing contg., mfr. of, process for, 1,271,387
—, roofing material contg., 1,296,324; 1,430,365; 1,436,914; 1,440,358; 1,459,259; 1,464,717
—, roofing material of, 1,415,923; 1,418,456
—, roofing material mfr. from, 1,296,984; Re-15,489; 1,429,728
—, roofing waste contg., 1,253,454
—, roofing waste, recovery from of, 1,253,386
—, rope, coating for contg., 1,305,222
—, rubber, artificial, made with, 1,285,463
—, —, hard, substitute for, made with, 1,265,108
—, rubber article made with, 1,248,226
—, rubber composition contg., 1,300,263
Asphalt, rubber substitute made with, 1,217,157; 1,238,528; 1,280,129; 1,430,538
—, rustproofing made with, 1,145,186; 1,279,918
—, rustproofing composition made with, 1,179,176
—, sand, separation from of, 1,190,633
—, sealing strip made with, 1,358,834
—, sealing strips contg., clay and, 1,358,834
—, sealing subterraneous crevices against water by means of, 1,327,268
—, separation from sulfuric acid, 1,337,141
—, sheathing made with, 1,362,887
—, sheaves, coating for contg., 1,305,222
—, sheet, composite, made with, 1,479,043
—, sheets of, preparing, 1,402,177
—, shingle made with, 1,184,509; 1,197,307; 1,208,972; 1,387,219
—, shingle, artificial, made with, 1,191,932; Re-14,387; 1,494,380; 1,497,116; 1,517,860
—, —, recovery of scrap, 1,293,293
—, shipping, preparing for, 1,402,177
—, shoe, box toe for, made with, 1,124,835
—, —, innersole for made with, 1,473,695
—, shoe bottom filler contg., 1,258,272
—, shoe filler made with, 1,136,456; 1,224,153
—, shoe innersole made with, 1,204,844
—, shoe sole made with, 1,284,023; 1,321,669
—, shoe stiffener made with, 1,209,661
—, Sicilian, substitute for, mfr. of, 1,433,137
—, sidewalk made with, 1,519,560
—, silicon carbide made with, 1,224,788; 1,327,738
—, silver made with, 1,243,681
—, slate, cleaner for, made with, 1,223,846
—, —, polish for, made with, 1,223,846
—, sludge sulfonic acid made with, 1,271,387
—, sludge sulfonic acid coke made with, 1,271,387
—, sludge sulfonic acid tar made with, 1,271,387
—, soap as emulsifier of, 1,440,356
—, sodium aluminum sulfate, action of on, 1,252,433
—, soft, enamel made with, 1,205,845
—, sole, inner, made with, 1,312,758
—, solidified, mfr. of, calcium oxide for, 1,167,373
—, —, —, cellulose sulfite liquor for, 1,167,373
—, —, —, chromic acid for, 1,167,373
—, —, —, coal, brown, for, 1,167,373
—, —, —, —, lignite, for, 1,167,373
—, —, —, coke for, 1,167,373
—, —, —, formaldehyde for, 1,167,373
—, —, —, glue for, 1,167,373
—, —, —, iron sulfate for, 1,167,373
—, —, —, peat for 1,167,373
—, —, —, process for, 1,167,373
—, —, —, rosin soap for, 1,167,373
—, —, —, straw for, 1,167,373
—, —, —, wood for, 1,167,373
—, solvent for, benzene as, 1,395,396; 1,474,423
—, —, carbon bisulfide as, 1,332,359
—, —, carbon tetrachloride as, 1,332,359
—, —, gasolene as, 1,289,328; 1,474,423
—, —, kerosene as, 1,474,423
—, —, naphtha as, 1,289,328; 1,332,359
—, —, naphtha, paint makers as, 1,474,423
—, —, —, solvent as, 1,474,423
—, —, —, wood, as, 1,474,423

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—, —, toluene as, 1,395,396; 1,474,423
—, —, turpentine as, 1,474,423
—, sponge, mfr. of, 1401,974
—, sprockets, coating for contg., 1,305,222
—, stabilizing, 1,375,811
—, starch as emulsifier of, 1,440,356
—, steel coating of using, 1,195,090; 1,236,994; 1,288,734; 1,328,282
—, —, etching of with, 1,276,599
—, —, paint of using, 1,328,282
—, —, protecting of using, 1,277,755
—, —, rustproofing of, using, 1,147,971; 1,288,734
—, —, structural, protecting of, process for, 1,167,949
—, steel etched using, 1,376,365
—, stencil made with, 1,376,365
—, stone, artificial, contg., 1,319,918
—, —, —, waterproofing of, using, 1,150,481
—, stove polish made with, 1,276,481
—, structural surfaces coated using, 1,239,074
—, stucco made with, 1,138,069
—, succinic acid made with, 1,517,968
—, sulfur made with, 1,182,915
—, sulfur bearing, building block made with, 1,265,655
—, —, road paving made with, 1,265,655
—, —, timber substitute made with, 1,265,655
—, sulfur content of, 1,163,593
—, surfaces painted with, painting, cellulose ester solutions for, 1,410,790
—, surgical dressing made with, 1,264,185; 1,268,076
—, tank lining, non-corroding contg., 1,305,678
—, tannic acid, as emulsifier of, 1,440,356
—, tanning compound made with, 1,399,510
—, tanning materials from, 1,399,510
—, tannins as emulsifier of, 1,440,356
—, tape, adhesive, contg., 1,293,957
—, tape for wheel fellies made with, 1,477,975
—, tar-felt made with, 1,321,669
—, telephone transmitter made with, 1,366,095
—, tempering, aluminum selenate for, 1,372,467
—, —, aluminum sulfate for, 1,372,467
—, —, ammonium selenide for, 1,372,467
—, —, ammonium sulfate for, 1,372,467
—, —, cesium selenide for, 1,372,467
—, —, cesium sulfate for, 1,372,467
—, —, chromium selenate for, 1,372,467
—, —, chromium sulfate for, 1,372,467
—, —, gallium selenate for, 1,372,467
—, —, gallium sulfate for 1,372,467
—, —, gold selenide for, 1,372,467
—, —, gold sulfate for, 1,372,467
—, —, indium selenate for, 1,372,467
—, —, indium sulfate for, 1,372,467
—, —, manganese selenate for, 1,372,467
—, —, manganese sulfate for, 1,372,467
—, —, oxides of base metals for, 1,372,467
—, —, platinum selenide for, 1,372,467
—, —, platinum sulfate for, 1,372,467
—, —, potassium selenide for, 1,372,467
—, —, potassium sulfate for, 1,372,467
—, —, rubidium selenide for, 1,372,467
—, —, rubidium sulfate for, 1,372,467
—, —, selenates for, 1,328,310
Asphalt, tempering, selenides for, 1,328,310
—, —, silver selenide for, 1,372,467
—, —, silver sulfate for, 1,372,467
—, —, sodium selenide for, 1,372,467
—, —, sodium sulfate for, 1,372,467
—, —, sulfates for, 1,328,310
—, —, thallium selenide for, 1,372,467
—, —, thallium sulfate for, 1,372,467
—, tent fabric made with, 1,427,941
—, terrazzo made with, 1,193,843
—, tetra-methylene from, cracking process for, 1,313,009
—, Texas, paint made with, 1,127,831
—, —, road building with, Re-15,401 (956,009)
—, —, roofing made with, 1,263,847
—, —, shingle made with, 1,263,847
—, textile impregnation of with, 1,277,322
—, tile made with, 1,250,622; 1,281,444; 1,320,709
—, timber substitute made with, 1,265,655
—, titanium tetrachloride made with, 1,179,394
—, toilet seat made with, 1,277,322
—, toluene from, cracking process for, 1,313,009
—, toluene made with, 1,224,788; 1,373,391
—, tragacanth as emulsifier of, 1,440,356
—, treating, borates for, 1,394,874
—, treatment of, apparatus for, 1,448,370
—, —, hydrochloric acid for, 1,513,133
—, —, process for, 1,513,133
—, tree, cavity in, filling composition contg., of with, 1,282,009
—, trees protected from apple tree borer using, 1,130,545; 1,130,546
—, trees protected from insects using, 1,130,545; 1,130,546
—, trees protected from peach tree borer using, 1,130,545; 1,130,546
—, tri-methylene from, cracking process for, 1,313,009
—, Trinidad, adhesive paper made with, 1,358,834
—, —, asphalt made with, 1,385,511
—, —, binder contg., 1,258,272
—, —, block made with, 1,320,709
—, —, brick made with, 1,320,709
—, —, insulation, electric, made with, 1,346,397
—, —, molded article made with, 1,346,397
—, —, paint made with, 1,127,831
—, —, pipe made with, 1,320,709
—, —, plastic made with, 1,346,397
—, —, plastic material made with, 1,320,709
—, —, road building with, Re-15,401 (956,009)
—, —, road paving made with, 1,171,236; 1,236,875; 1,237,920; 1,320,709
—, —, roofing made with, 1,164,965; 1,385,511; 1,499,308
—, —, sealing strip made with, 1,358,834
—, —, shoe bottom filler contg., 1,258,272
—, —, tank lining, non-corroding, contg., 1,305,678
—, —, tile made with, 1,320,709
—, Trinidad Lake, asphalt cement made with, 1,163,593
—, —, fabric made with, 1,503,337
—, —, insulation, electric, made with, 1,503,337
—, —, —, heat, made with, 1,503,337

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—, —, sulfur content of, 1,163,593
—, turf, briquetting of using, 1,207,180
—, underwriters cloth made with, 1,427,941
—, varnish made with, 1,392,849; 1,436,820; 1,464,224
—, Venezuela, binder contg., 1,258,272
—, —, shoe bottom filler contg., 1,258,272
—, Venezuelan emulsion, bituminous, made with, 1,259,223
—, —, road paving made with, 1,259,223
—, —, roofing made with, 1,259,223
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—, viscose plasticizer, 1,251,237
—, viscosity of, apparatus for determining, 1,225,438
—, vulcanized fiber waterproofed with, 1,425,878
—, vulcanizing, sulfur for, 1,446,322
—, wall board made with, 1,156,753; 1,248,181; 1,473,981; 1,477,532; 1,479,044; 1,486,535
—, wall covering contg., 1,369,911
—, washer for fire-proof structures made with, 1,131,925
—, waste products, recovery of, 1,290,954
—, waterproof composition contg., 1,263,823; 1,285,888; 1,401,791; 1,417,836; 1,417,837; 1,417,838; 1,417,839; 1,417,840; 1,417,841
—, waterproof covering made with, 1,489,254
—, waterproofing made with, 1,150,481; 1,167,327; 1,194,558; 1,231,687; 1,248,909; 1,500,537; 1,502,598; 1,517,075
—, waterproofing composition contg., 1,349,601
—, waterproofing process using, 1,417,837
—, waterproof material made with, 1,330,443; 1,513,133
—, wire fabric, impregnation with of, process for, 1,286,057
—, wood, impregnation with of, process for, 1,286,057
—, —, preserving of using, 1,512,659
—, —, seasoning of using, 1,517,473
—, —, treatment of, using, 1,203,577
—, —, water-proofing of, using, 1,167,327; 1,203,577
—, wood finishing made with, 1,276,481
—, wood impregnating composition contg., 1,464,044
—, wood pulp impregnation of with, 1,277,322
—, wood substitute made with, 1,269,649; 1,427,378
—, wood waterproofed with, 1,396,899
—, xylene made with, 1,224,788
—, zinc, etching of with, 1,276,599
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Asphalt (NoXXX-50) asphaltic composition made with, 1,209,238
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—, —, apparatus for, 1,520,885
—, —, iron(ic) salts as catalyst for, 1,520,885
—, —, molybdenum(ic) salt as catalyst for, 1,520,885
—, —, molybdic acid as catalyst for, 1,520,885
—, —, nitric acid for, 1,520,885
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—, —, oxygen for, 1,520,885
—, —, process for, 1,520,885
—, —, sulfuric acid as catalyst for, 1,520,885
—, —, vanadic acid as catalyst for, 1,520,885
—, —, vanadium(ic) salt as catalyst for, 1,520,885
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—, —, —, Cuban, for, 1,163,593
—, —, —, Maracaibo, for, 1,163,593
—, —, —, Trinidad Lake, for, 1,163,593
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—, —, linseed oil for, 1,163,593
—, —, petroleum for, 1,163,593
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—, cement made with, 1,233,101
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—, —, calcium carbonate for, 1,209,238
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—, fabric, waterproof, made with, 1,279,918
—, insulating and sealing composition contg., 1,345,057
—, insulation, electric, made with, 1,279,918
—, mfr. of, alkali for, 1,221,790
—, —, apparatus for, 1,221,790
—, —, cracking process for, 1,221,790
—, —, fuel oil for, 1,221,790
—, —, gas oil for, 1,221,790
—, —, paraffin distillate for, 1,221,790
—, —, petroleum for, 1,221,790
—, —, petroleum distillate for, 1,221,790
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—, —, sulfuric acid for, 1,221,790
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—, plastic made with, 1,315,342

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—, rustproofing made with, 1,279,918
—, water, Japan, contg., 1,357,688
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—, cement, water-proofing of, composition for made with, 1,149,519
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—, —, charcoal for, 1,300,144
—, —, chromium, colloidal, as catalyst for, 1,251,201
—, —, chromium compound, as catalyst for, 1,251,201
—, —, chromium oleate as catalyst for, 1,251,201
—, —, cobalt, colloidal, as catalyst for, 1,226,620; Re-14,429; 1,251,201
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—, —, cobalt compound as catalyst for, 1,251,201
—, —, cobalt oleate as catalyst for, 1,251,201
—, —, cobalt oxide as catalyst for, 1,226,620; Re-14,429
—, —, cobalt silicide as catalyst for, 1,226,620; Re-14,429
—, —, copper, colloidal, as catalyst for, 1,251,201
—, —, copper compound as catalyst for, 1,251,201
—, —, copper oleate as catalyst for, 1,251,201
—, —, gasolene for, 1,345,589
—, —, iron, colloidal, as catalyst for, 1,226,620; Re-14,429; 1,251,201
—, —, iron carbide as catalyst for, 1,226,620; Re-14,429
—, —, iron compound as catalyst for, 1,251,201
—, —, iron oleate as catalyst for, 1,251,201
—, —, iron oxide as catalyst for, 1,226,620; Re-14,429
—, —, iron silicide as catalyst for, 1,226,620; Re-14,429
—, —, manganese, colloidal, as catalyst for, 1,251,201
—, —, manganese compound as catalyst for, 1,251,201
—, —, manganese oleate as catalyst for, 1,251,201
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—, —, metal compound as catalyst for, 1,251,201
—, —, metal oleate as catalyst for, 1,251,201
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—, —, nickel compound as catalyst for, 1,251,201
—, —, nickel oleate as catalyst for, 1,251,201
—, —, nickel oxide as catalyst for, 1,226,620; Re-14,429
—, —, nickel silicide as catalyst for, 1,226,620; Re-14,429
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—, —, texene for, 1,345,589
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—, —, titanium compound as catalyst for, 1,251,201
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—, —, vanadium, colloidal, as catalyst for, 1,251,201
—, —, vanadium compound as catalyst for, 1,251,201
—, —, vanadium oleate as catalyst for, 1,251,201
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—, lubricant made with, 1,238,101
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—, railroad tie made with, 1,250,194
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—, —, water-proofing of, composition for made with, 1,149,519
—, shingle made with, 1,197,307
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—, waterproofing composition for made with, 1,149,519
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—, shingle made with, 1,197,307
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—, albumen as emulsifier of, 1,440,356
—, ammonium tannate as emulsifier of, 1,440,356
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—, casein as emulsifier of, 1,440,356
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—, clutch ring made with, 1,447,347
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—, —, chromium as catalyst for, 1,285,960
—, —, cobalt as catalyst for, 1,285,960
—, —, copper as catalyst for, 1,285,960
—, —, iron as catalyst for, 1,285,960
—, —, manganese as catalyst for, 1,285,960
—, —, molybdenum as catalyst for, 1,285,960
—, —, nickel as catalyst for, 1,285,960
—, —, nickel oleate as catalyst for, 1,285,960
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—, —, titanium as catalyst for, 1,285,960
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—, ink, printing, made with, 1,469,414
—, leather made with, 1,200,146
—, mortar, water-proofing of using, 1,134,573
—, roofing made with, 1,164,965
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—, Trinidad, roofing made with, 1,164,965
—, waterproof material made with, 1,233,252
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Asphalt product, mfr. of, apparatus for, 1,194,750
—, —, process for, 1,194,750
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—, battery container acid-proofed with, 1,369,783
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—, —, insulation, electric, made with, 1,149,171
—, —, tube made with, 1,242,903
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—, building material of clay and, 1,442,764
—, calcium hydroxide and, road construction with, 1,456,492
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—, composition for tightening loose spokes and rims contg., 1,331,653
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—, —, —, —, process for, 1,502,275
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—, —, —, benzene for, 1,378,343
—, —, —, benzyl chloride for, 1,378.343
—, —, —, calcium chloride for, 1,378,343
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—, lead, action of on, 1,453,976
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—, zinc, action on of, 1,453,976
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—, —, chalcopyrite of, 1,364,305
—, —, copper sulfide of, 1,364,305
—, —, minerals of, 1,364,305
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Azonaphthalene, flotation by, zinc-lead ores of, 1,364,305
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Azonaphthalene hydrochloride, flotation by, chalcocite of, 1,364,305
—, —, chalcopyrite of, 1,364,305
—, —, copper sulfide of, 1,364,305
—, —, minerals of, 1,364,305
—, —, sulfide ores of, 1,364,305
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Azonaphthalene sulfate, flotation by, chalcocite of, 1,364,305
—, —, chalcopyrite of, 1,364,305
—, —, copper sulfide of, 1,364,305
—, —, minerals of, 1,364,305
—, —, sulfide ores of, 1,364,305
—, —, zinc lead ores of, 1,364,305
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—, —, aldehyde for, 1,500,844
—, —, alkali for, 1,500,844
—, —, alkali carbonate for, 1,500,844
—, —, alkali sulfide for, 1,500,844
—, —, butadiene for, 1,500,844
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—, —, hexamethylenetetramine for, 1,500,844
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—, —, vinyl compounds for, 1,500,844
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—, alkali salt of, detonator made with, 1,511,771
—, cadmium salt of, detonator made with, 1,511,771
—, detonator made with, 1,511,771
—, lead salt of, detonator made with, 1,511,771
—, metal salt of, detonator made with, 1,511,771
—, silver salt of, detonator made with, 1,511,771
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—, hydrazo-benzene made with, 1,134,093
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—, —, nitrobenzene for, 1,134,093; 1,451,489
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—, copper plating with, 1,374,541
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—, —, copper sulfite, cupro-cupric, for, 1,286,531; 1,286,532
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—, lead production of using, 1,146,373
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—, mercury production of using, 1,146,373
—, metal production of using, 1,146,373
—, nickel production of using, 1,146,373
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—, silver production of using, 1,146,373
—, tin production of using, 1,146,373
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—, zinc production of using, 1,146,373
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—, golf ball made with, 1,182,605
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—, —, —, paraffin coating for, 1,275,449
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—, nickel plated 1,351,404
—, oxidation of, preventing, metallic coatings for, 1,351,404
—, packing contg., 1,270,056
—, packing made with, 1,355,830
—, solder made with, 1,239,785
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Babbitt metal dust, cupgrease contg., 1,454,002
Babbitt metal substitute, mfr. of, antimony sulfide for, 1,138,845
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—, —, black antimony for, 1,217,710; 1,217,711
—, —, copper for, 1,138,845; 1,217,710; 1,217,711
—, —, lead for, 1,138,845; 1,217,710; 1,217,711
—, —, process for, 1,138,845; 1,217,710; 1,217,711
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Babbitt metal wool, packing made with, 1,355,830
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Bacillus bulgaricus, fruit juices treated with, 1,417,412
Bacillus bulgaricus, milk product made with, 1,160,086
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—, —, sodium chloride for, 1,124,851; 1,134,299
—, —, sugar for, 1,124,851; 1,134,299
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—, smoked, ointment made with, 1,492,823
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—, —, plastic made using, 1,189,841
—, —, silk, artificial, made using, 1,189,841
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—, acetone mfr. by means of, 1,385,888
—, acetone produced with, 1,437,697
—, acetone produced from starches by, 1,329,214
—, acid forming, fertilizer made with, 1,260,103
—, —, garbage, disposal of with, 1,260,103
—, *acidi propionici,* acetone made with, 1,470,885
—, —, diethyl ketone made with, 1,470,885
—, —, ethyl methyl ketone made with, 1,470,885
—, —, propionate made with, 1,470,885
—, —, propionici, made with, 1,470,885
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—, —, bacterial compost made with, 1,252,332
—, —, fertilizer made with, 1,252,332; 1,257,591; 1,260,103
—, —, garbage, disposal of with, 1,260,103
—, —, sewage treated using, 1,247,540; 1,247,541; 1,247,542; 1,247,543; Re-15,140; 1,511,418
—, albumin digested by, 1,366,338
—, ammonifying, bacteria, distribution of, composition, for, made with, 1,252,332
—, —, bacterial compost made with, 1,252,332; 1,516,016
—, —, fertilizer made with, 1,212,196; Re-14,686; 1,252,332; 1,261,025
—, anaerobic, sewage, treatment of, using, 1,511,418
—, aniline as poison for, 1,288,755
—, azobacter, fertilizer contg., 1,309,723
—, *azobacter crococum,* fertilizer contg., 1,261,025
—, *azobacter vinelandii,* fertilizer contg., 1,261,025
—, *azotobacter,* bacteria compost made with, 1,254,366
—, —, fertilizer made with, 1,254,366
—, *azotobacter,* bacteria, distribution of, composition for, made with, 1,252,332
Bacteria, azotobacter, bacterial compost made with, 1,252,332; 1,320,701; 1,515,016
—, —, fertilizer made with, 1,252,332; 1,260,103; 1,320,701
—, —, garbage, disposal of with, 1,260,103
—, —, plant food contg., 1,320,701
—, —, soil inoculator contg., 1,320,701
—, *azotobacter chrococcum,* bacteria compost contg., 1,320,701
—, —, fertilizer contg., 1,320,701
—, —, plant food contg., 1,320,701
—, —, soil inoculator contg., 1,320,701
—, *B. acidi lacti,* milk, pasteurized, contg., mfr. of, process for, 1,175,876
—, —, milk treated using, 1,175,876
—, *B. acidophilus,* beverage made with, 1,506,501
—, —, milk product made with, 1,506,501
—, —, properties of, 1,506,501
—, *B. azotobacter,* bacterial compost made with, 1,205,829
—, —, fertilizer made with, 1,205,829
—, *B. boocopricus,* hair, deliming of using, 1,235,214
—, —, wool, deliming of using, 1,235,214
—, *B. Bulgaricus,* bacteria, *B. Bulgaricus,* preparation made with, 1,179,625
—, —, baking powder made with, 1,230,452
—, —, beer, dealcoholized, made with, 1,204,315
—, —, beverage made with, 1,506,501
—, —, butter substitute made with, 1,247,482
—, —, food product made with, 1,182,860
—, —, lactic acid made with, 1,249,511
—, —, milk product made with, 1,506,501
—, —, preparation, mfr of, bacteria, lactic acid, for, 1,179,625
—, —, —, —, carbonates for, 1,179,625
—, —, —, —, chocolate for, 1,179,625
—, —, —, —, fruit juice for, 1,179,625
—, —, —, —, lactates for, 1,179,625
—, —, —, —, milk for, 1,179,625
—, —, —, —, paraffin for, 1,179,625
—, —, —, —, phosphates for, 1,179,625
—, —, —, —, process for, 1,179,625
—, —, —, —, stains for, 1,179,625
—, —, —, —, sugar for, 1,179,625
—, —, —, —, sugar, fondant, for, 1,179,625
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—, —, —, —, sugar, potato, for, 1,179,625
—, —, —, —, sulfates for, 1,179,625
—, —, —, Yoghurt milk made with, 1,179,625
—, —, properties of, 1,506,501
—, *B. Bulgaris,* beer, Yoghurt, made with, 1,228,916
—, *B. cholerae suis, see Hog cholera*
—, *B. coli,* dibrom-2-naphthol, bactericidal action of on, 1,232,187
—, —, fertilizer made with, 1,268,563
—, *B. Delbruieki,* beverage made using, 1,249,259
—, *B. lactis,* baking powder made with, 1,230,452
—, blood pressure reducing substance prepared with, 1,399,535
—, *B. macerans,* acetone made with, 1,169,321; 1,169,322
—, —, alcohol made with, 1,169,322
—, —, cattle food made with, 1,169,322

Bacteria, B. macerans, dog food made with, 1,169,322
—, —, ethyl alcohol made with, 1,169,321
—, —, molasses, fermentation of using, 1,169,321
—, —, poultry feed made with, 1,169,322
—, —, sugars, fermentation of using, 1,169,321
—, —, sugar cane, fermentation of using, 1,169,321
—, *B. mesenterious vulgatus,* bread made with, 1,222,304
—, *B. mycoides,* bread made with, 1,222,304
—, *B. paratyphus,* dichlor-2-naphthol, bactericidal action of on, 1,232,187
—, *B. radicicola,* bacteria compost made with, 1,254,366; 1,320,701
—, —, fertilizer made with, 1,254,366; 1,260,103; 1,320,701
—, —, garbage, disposal of with, 1,260,103
—, —, plant food contg., 1,320,701
—, —, soil inoculator contg., 1,320,701
—, bread, salt-rising, made with, 1,149,839
—, *B. rossica,* bacteria compost contg., 1,320,701
—, —, fertilizer contg., 1,320,701
—, —, plant food contg., 1,320,701
—, —, soil inocculator contg., 1,320,701
—, *B. subtilis,* bread made with, 1,222,304
—, —, hair, deliming of using, 1,235,214
—, —, wool, deliming of using, 1,235,214
—, butyl alcohol mfr. by means of, 1,385,888
—, —, produced with, 1,437,697
—, —, produced from starches by, 1,329,214
—, butyric acid made with, 1,405,055
—, —, fertilizer contg., 1,309,723
—, *B. vulgatus,* fertilizer made with, 1,268,563
—, *B. xylinoides,* leather substitute made using, 1,141,545
—, *B. xylinum,* leather substitute made using, 1,141,545
—, cellulose made with, 1,311,980
—, cellulose action on, 1,443,881
—, cellulose destroying, bacteria compost contg., 1,320,701
—, —, fertilizer contg., 1,320,701
—, —, plant food contg., 1,320,701
—, —, soil inoculator contg., 1,320,701
—, cellulose splitting, fertilizer made with, 1,260,103
—, —, garbage, disposal of with, 1,260,103
—, cholera, mice, killing of with composition contg., 1,178,941
—, —, rats, killing of with composition contg., 1,178,941
—, —, vermin, killing of with composition contg., 1,178,941
—, *clostridium,* fertilizer contg., 1,261,025
—, *clostridium pasteurianum,* fertilizer contg., 1,309,723
—, copper(ous) cyanide, as poison for, 1,288,755
—, copper(ous) rhodanide as poison for, 1,288,755
—, cultivation of, acetone made with, 1,315,585
—, —, alcohol made with, 1,315,585
—, —, butyl alcohol made with, 1,315,585
—, cultures of, tobacco treated with, 1,331,331
—, cyanides as poison for, 1,288,755
Bacteria, Danysz, mice killing of with composition contg., 1,178,941
—, —, rats, killing of with composition contg., 1,178,941
—, —, vermin, killing of with composition contg., 1,178,941
—, *Delbrucki,* grape juice made with, 1,207,014
—, denitrifying, fertilizer made with, 1,268,563
—, destroying, barium sulfide and calcium oxide for, 1,343,034
—, —, pressure for, 1,355,476
—, destruction of, apparatus for, 1,513,137, 1,513,138
—, hydrocarbon for, 1,513,138
—, —, process for, 1,513,137; 1,513,138
—, *desulfurens,* fertilizer contg., 1,261,025
—, desulfurizing, fertilizer contg., 1,261,025
—, dissolving, sodium hydroxide for, 1,409,796
—, distribution of, composition of, agar in, 1,252,332
—, —, —, bacteria, aerobic in, 1,252,332
—, —, —, —, ammonifying in, 1,252,332
—, —, —, —, *azotobacter,* in, 1,252,332
—, —, —, —, nitrate in, 1,252,332
—, —, —, —, nitrifying in, 1,252,332
—, —, —, —, nitro, in, 1,252,332
—, —, —, —, nitrobacter in, 1,252,332
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—, —, —, borax in, 1,252,332
—, —, —, carbohydrates in, 1,252,332
—, —, —, chalk in, 1,252,332
—, —, —, clay in, 1,252,332
—, —, —, dextrin in, 1,252,332
—, —, —, dolomite in, 1,252,332
—, —, —, glucose in, 1,252,332
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—, —, —, humus in, 1,252,332
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—, —, —, phosphate rock in, 1,252,332
—, —, —, potassium chloride in, 1,252,332
—, —, —, potassium phosphate in, 1,252,332
—, —, —, potassium sulfate in, 1,252,332
—, —, —, resins in, 1,252,332
—, —, —, seawood jelly in, 1,252,332
—, —, —, slag, basic, in, 1,252,332
—, —, —, starch in, 1,252,332
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—, —, —, sugar for, 1,252,332
—, —, —, syrup in, 1,252,332
—, —, —, talcum in, 1,252,332
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—, —, —, waxes in, 1,252,332
—, —, —, wood ashes in, 1,252,332
—, —, —, wood fiber in, 1,252,332
—, ensilage, acetic acid made with, 1,400,852

Bacteria, ensilage, butyric acid made with, 1,400,852
—, —, esters made with, 1,400,852
—, —, ethyl acetate made with, 1,400,852
—, —, ethyl butyrate made with, 1,400,852
—, —, ethyl propionate made with, 1,400,852
—, —, methyl acetate made with, 1,400,852
—, —, methyl butyrate made with, 1,400,852
—, —, methyl propionate made with, 1,400,852
—, —, propionic acid made with, 1,400,852
—, enzymes, alcohol made with, 1,227,374
—, —, cattle food made with, 1,277,374
—, —, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, —, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, —, glucose made with, 1,227,374
—, —, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, —, fiber, removal from of, using, 1,505,534
—, fertilizer contg., 1,368,249
—, filter for, asbestos in, 1,256,171
—, —, cellulose in, 1,256,171
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—, —, infusorial earth in, 1,256,171
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—, —, mfr. of, asbestos in, 1,256,171
—, —, —, cellulose in, 1,256,171
—, —, —, cotton in, 1,256,171
—, —, —, flax in, 1,256,171
—, —, —, infusorial earth in, 1,256,171
—, —, —, jute in, 1,256,171
—, —, —, kaolin in, 1,256,171
—, filter for retaining, cellulose esters in, 1,421,341
—, Fitz type, acetone made with, 1,315,585
—, —, alcohol made with, 1,315,585
—, —, butyl alcohol made with, 1,315,585
—, fodder, green preserved with, 1,257,754
—, food stuff for, artichokes, Jerusalem, in, 1,472,344
—, —, beech nut in, 1,472,344
—, —, beet tops in, 1,472,344
—, —, bisulfate in, 1,472,344
—, —, bisulfite in, 1,472,344
—, —, bran in, 1,472,344
—, —, bran straw in, 1,472,344
—, —, chestnut in, 1,472,344
—, —, flax sprays in, 1,472,344
—, —, grain residue in, 1,472,344
—, —, humic acid in, 1,472,344
—, —, humic substance in, 1,472,344
—, —, humin in, 1,472,344
—, —, hydrochloric acid in, 1,472,344
—, —, fruit refuse in, 1,472,344
—, —, malt residue in, 1,472,344
—, —, molasses residue in, 1,472,344
—, —, sawdust in, 1,472,344
—, —, seaweed in, 1,472,344
—, —, sulfuric acid in, 1,472,344
—, —, sulfurous acid in, 1,472,344
—, —, tan residue in, 1,472,344
—, —, ulmic acid in, 1,472,344
—, —, ulmin in, 1,472,344
Bacteria, food stuff for, vine branches in, 1,472,344
—, —, wine press refuse in, 1,472,344
—, formic acid, destruction of during diastase mfr. 1,153,640; 1,153,641
—, fusiform, mercury(ic) iodide, specific action of on, 1,469,322
—, garden soil, acetic acid made with, 1,400,852
—, —, butyric acid made with, 1,400,852
—, —, esters made with, 1,400,852
—, —, ethyl acetate made with, 1,400,852
—, —, ethyl butyrate made with, 1,400,852
—, —, ethyl propionate made with, 1,400,852
—, —, methyl acetate made with, 1,400,852
—, —, methyl butyrate made with, 1,400,852
—, —, methyl propionate made with, 1,400,852
—, —, propionic acid made with, 1,400,852
—, glue, vegetable, made with, 1,273,571
—, grape-fruit, acetic acid made with, 1,400,852
—, —, butyric acid made with, 1,400,852
—, —, esters made with, 1,400,852
—, —, ethyl acetate made with, 1,400,852
—, —, ethyl butyrate made with, 1,400,852
—, —, ethyl propionate made with, 1,400,852
—, —, methyl acetate made with, 1,400,852
—, —, methyl butyrate made with, 1,400,852
—, —, methyl propionate made with, 1,400,852
—, —, propionic acid made with, 1,400,852
—, herbaceous animal feces, acetic acid made with, 1,400,852
—, —, butyric acid made with, 1,400,852
—, —, esters made with, 1,400,852
—, —, ethyl acetate made with, 1,400,852
—, —, ethyl butyrate made with, 1,400,852
—, —, ethyl propionate made with, 1,400,852
—, —, methyl acetate made with, 1,400,852
—, —, methyl butyrate made with, 1,400,852
—, —, methyl propionate made with, 1,400,852
—, —, propionic acid made with, 1,400,852
—, indigo, dyeing with, using, 1,239,526
—, lactic acid, acetaldehyde made with, 1,511,754
—, —, alcohol made with, 1,511,754
—, —, bacteria, *B. Bulgaricus,* preparation made with, 1,179,625
—, —, baking powder made with, 1,230,452
—, —, beer, coloring for, made with, 1,178,040
—, —, —, dealcoholized, made with, 1,204,315
—, —, —, non-alcoholic, restored to flavor using, 1,302,551; Re-14,889
—, —, beer wort made with, 1,178,039
—, —, beverage made with, 1,191,440
—, —, beverage, unfermented, made with, 1,204,869
—, —, bread made with, 1,179,877; 1,190,827; 1,355,128
—, —, casein prepared with, 1,412,462
—, —, cattle food made with, 1,147,768
—, —, celluloid substitute made using, 1,189,841
—, —, diastase made with, 1,129,387
—, —, fat made, with, 1,147,768
—, —, fermentation, acid using, 1,123,920
—, —, fertilizer contg., 1,309,723
—, —, food contg., 1,287,600
—, —, food product made with, 1,178,039; 1,178,040; 1,182,860; 1,272,035; 1,477,153

Bacteria, lactic acid, gherkins, preparation contg., mfr. of, process for, 1,179,625
—, —, gioddu, preparation contg., mfr. of, process for, 1,179,625
—, —, glycerol made with, 1,147,768; 1,511,754
—, —, grape juice made with, 1,207,014
—, —, growing, 1,381,468; 1,381,469
—, —, kefir, preparation contg., mfr. of, process for, 1,179,625
—, —, lactic acid made with, 1,147,768; 1,249,511
—, —, mazun, preparation contg., mfr. of, process for, 1,179,625
—, —, milk, artificial, made with, 1,139,031
—, —, milk substitute made with, 1,175,467; 1,243,855; 1,267,449
—, —, petrolatum, coating with of, 1,260,899
—, —, plastic made using, 1,189,841
—, —, protective coating for, 1,260,899
—, —, sauerkraut, preparation contg., mfr. of, process for, 1,179,625
—, silk, artificial, made using, 1,189,841
—, —, succinic acid made with, 1,147,768
—, —, yeast made with, 1,170,110; 1,474,674; 1,475,471
—, —, yeast food made with, 1,190,827
—, —, *see also "Cream Starter"*
—, lactic acid produced in fruit juices by, 1,417,412
—, lactic acid producing, de-alcoholized beer restored to flavor by, 1,302,551; Re-14,889
—, lactic acid producing, milk treated with, 1,327,308
—, *lactici acidi,* fodder, green, preserved with, 1,257,754
—, leather substitute made with, 1,141,545; 1,287,387
—, legume, bacteria compost contg., 1,320,701
—, —, fertilizer contg., 1,320,701
—, —, plant food contg., 1,320,701
—, —, soil inoculator contg., 1,320,701
—, legume nitrogen fixing, bacterial compost made with, 1,515,016
—, *massal,* milk, artificial, made with, 1,139,031
—, meat cured by specific, 1,380,068; 1,380,069; 1,380,070
—, medium for culture of, 1,368,249
—, medium for growing lactic acid bacteria, formula, 1,381,468; 1,381,469
—, milk, artificial, made with, 1,210,667
—, *Mesentericus,* alcohol made with, 1,227,374
—, —, cattle feed made with, 1,227,374
—, —, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, —, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, —, glucose made with, 1,227,374
—, —, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, amylaceous, fiber, removal from of, 1,505,534
—, —, yeast, pressed, made with, 1,176,528
—, —, milk, artificial, made with, 1,210,667
—, milk, butter substitute made with, 1,210,667
—, —, *see also Bacteria, peptonizing*
Bacteria, nitrates made with, 1,288,754; 1,288,755
—, nitrate, bacteria, distribution of, composition for, made with, 1,252,332
—, —, bacterial compost made with, 1,252,332; 1,515,016
—, —, fertilizer made with, 1,252,332; 1,309,723
—, nitrifying, aniline, effect of on, 1,288,755
—, —, bacteria, distribution of, composition for, made with, 1,252,332
—, —, bacterial compost made with, 1,252,332; 1,254,366; 1,515,016
—, nitrifying, calcium nitrate made with, 1,286,838; 1,286,839
—, —, copper(ous) cyanide, effect of on, 1,288,755
—, —, copper(ous) rhodanide, effect of on, 1,288,755
—, —, copper salt, effect of on, 1,288,755
—, —, culture of, 1,341,030
—, —, cyanides, effect of on, 1,288,755
—, —, fertilizer made with, 1,212,196; Re-14,686; 1,252,332; 1,254,366; 1,442,239
—, —, fertilizer, explosive, made with, 1,274,343
—, —, fluorides, effect of on, 1,288,755
—, —, nitrates, made with, 1,288,754; 1,288,755
—, —, peat treated with, 1,255,732
—, —, phenol, effect of on, 1,288,755
—, —, preservation of, 1,341,030
—, —, resistant to bacteria poison, 1,288,755
—, —, rhodanides, effect of on, 1,288,755
—, —, sodium cyanide, effect of on, 1,288,755
—, —, sodium fluoride, effect of on, 1,288,755
—, nitrite, bacterial compost made with, 1,515,016
—, nitrite made from nitrate and, 1,259,376; 1,259,377
—, nitro, bacteria, distribution of, composition made with, 1,252,332
—, —, bacteria compost made with, 1,252,332
—, —, fertilizer made with, 1,252,332; 1,309,723
—, nitrobacter, bacteria, distribution of, composition for, made with, 1,252,332
—, —, bacterial compost made with, 1,252,332; 1,320,701
—, —, fertilizer made with, 1,252,332; 1,261,025; 1,309,723; 1,320,701
—, —, plant food contg., 1,320,701
—, —, soil inoculator contg., 1,320,701
—, nitrogen-fixing, bacteria, distribution of, composition for, made with, 1,252,332
—, —, bacterial compost made with, 1,252,332; 1,320,701; 1,515,016
—, —, fertilizer contg., 1,309,723; 1,320,701
—, —, fertilizer made with, 1,208,199; 1,212,196; Re-14,686; 1,252,332
—, —, fertilizer, explosive, made with, 1,274,343
—, —, non-symbiotic, bacteria, distribution of, composition for, made with, 1,252,332
—, —, —, bacterial compost made with, 1,252,332
—, —, —, fertilizer made with, 1,252,332
—, —, plant food contg., 1,320,701
—, —, soil inoculator contg., 1,320,701
—, —, symbiotic, bacteria, distribution of, composition for, made with, 1,252,332

Bacteria, nitrogen fixing, symbiotic, bacterial compost made with, 1,252,332
—, —, —, fertilizer made with, 1,252,332
—, nitrosomonas, bacterial compost contg., 1,320,701
—, —, fertilizer contg., 1,261,025; 1,309,723; 1,320,701
—, —, plant food contg., 1,320,701
—, —, soil inoculator contg., 1,320,701
—, non-symbiotic bacterial compost contg., 1,320,701; 1,515,016
—, —, fertilizer contg., 1,261,025; 1,309,723; 1,320,701
—, —, plant food contg., 1,320,701
—, —, soil inoculator contg., 1,320,701
—, organic acids mfr. from algae with, 1,371,611
—, peptonizing, bacterial compost made with, 1,515,016
—, —, yeast, pressed, made with, 1,176,528
—, —, *see also Bacteria, Mesentericus; Bacteria, Tyrothrix; Bacteria subtilis,*
—, petrolatum, coating with of, 1,260,899
—, phenols removed from ammonia still waste liquors by, 1,437,394; 1,437,401
—, phenol as poison for, 1,288,755
—, protective coating for, 1,260,899
—, proteins removed from starch by, 1,422,328
—, proteolytic, silk degummed with, 1,432,312
—, *Pseudomonas radicola,* bacteria, distribution of, composition for, made with, 1,252,332
—, —, bacterial compost made with, 1,252,332
—, —, fertilizer made with, 1,252,332; 1,309,723
—, pure culture of, mfr. of apparatus for, 1,212,656
—, —, —, process for, 1,212,656
—, *radicicola,* fertilizer contg., 1,261,025
—, removing from air, 1,442,619
—, resins made with, 1,311,980
—, retting, flax retting using, 1,133,590
—, rhodanides as poison for, 1,288,755
—, *rossica,* fertilizer contg., 1,261,025
—, *Saccharobacillus Pasterianus,* beverage, unfermented, made with, 1,204,869
—, salt-rising bread type, description of, 1,149,839
—, saprogenic, fertilizer made with, 1,260,103
—, —, garbage, disposal of with, 1,260,103
—, sauer-kraut, acetic acid made with, 1,400,852
—, —, butyric acid made with, 1,400,852
—, —, esters made with, 1,400,852
—, —, ethyl acetate made with, 1,400,852
—, —, ethyl butyrate made with, 1,400,852
—, —, ethyl propionate made with, 1,400,852
—, —, methyl acetate made with, 1,400,852
—, —, methyl butyrate made with, 1,400,852
—, —, methyl propionate made with, 1,400,852
—, —, propionic acid made with, 1,400,852
—, *Schizomycetes,* hair, deliming of using, 1,235,214
—, —, wool, deliming of using, 1,235,214
—, sericin removed from silk by, 1,423,312
—, silk de-gummed with, 1,432,312
—, sodium cyanide as poison for, 1,288,755
—, sodium fluoride as poison for, 1,288,755
—, *soil, beneficial, medium for culture of, see Bacterial compost*
Bacteria, soil, carrier for, see Fertilizer
—, —, *culture medium for, see Bacterial compost*
—, —, fertilizer made with, 1,208,199; 1,261,025
—, starch reducing, adhesive made with, 1,257,307
—, —, glue, vegetable, made with, 1,257,307
—, subtilis, alcohol made with, 1,227,374
—, —, cattle food made with, 1,227,374
—, —, fabric, amylaceous, sizing, removal of from, using, 1,505,534
—, —, fiber, amylaceous, sizing, removal of from, using, 1,505,534
—, —, glucose made with, 1,227,374
—, —, sizing, amylaceous, fabric, removal from of, using, 1,505,534
—, —, —, —, fiber, removal from of, using, 1,505,534
—, —, yeast, pressed, made with, 1,176,528
—, —, *see also Bacteria, peptonizing*
—, sugars made with, 1,311,980
—, sulfofying, composition contg., sulfur, soil and, 1,361,596; 1,361,597
—, —, culture of, 1,361,596; 1,361,597
—, sulfur, bacterial compost made with, 1,515,016
—, sulfur converted into sulfuric acid by, 1,361,596; 1,361,597
—, sulfur oxidizing, fertilizer made with, 1,494,434; 1,494,435
—, —, production of, agar for, 1,494,435
—, —, —, ammonium chloride for, 1,494,435
—, —, —, ammonium sulfate for, 1,494,435
—, —, —, calcium carbonate for, 1,494,434; 1,494,435
—, —, —, calcium chloride for, 1,494,435
—, —, —, calcium phosphate $Ca_3P_2O_8$, for, 1,494,434; 1,494,435
—, —, —, carbohydrates for, 1,494,434; 1,494,435
—, —, —, dextrose for, 1,494,434; 1,494,435
—, —, —, iron mineral, contg., for, 1,494,434; 1,494,435
—, —, —, iron(ic) chloride for, 1,494,434; 1,494,435
—, —, —, iron(ous) sulfate for, 1,494,435
—, —, —, magnesium, mineral contg., for, 1,494,434; 1,494,435
—, —, —, magnesium chloride for, 1,494,434; 1,494,435
—, —, —, magnesium sulfate for, 1,494,435
—, —, —, mineral, iron in, for, 1,494,434; 1,494,435
—, —, —, —, magnesium in, for, 1,494,434; 1,494,435
—, —, —, —, phosphorus in, for, 1,494,434; 1,494,435
—, —, —, —, potassium in, for, 1,494,434; 1,494,435
—, —, —, phosphoric acid for, 1,494,435
—, —, —, phosphorus, mineral contg., for, 1,494,434; 1,494,435
—, —, —, potassium, mineral contg., for, 1,494,434; 1,494,435
—, —, —, potassium nitrate for, 1,494,434; 1,494,435

Bacteria, sulfur oxidizing, production of, potassium phosphate, K_2HPO_4, for, 1,494,434; 1,494,435
—, —, —, process for, 1,494,434; 1,494,435
—, —, —, sodium nitrate for, 1,494,434; 1,494,435
—, —, —, sodium nitrite for, 1,494,434; 1,494,435
—, —, —, sodium thiosulfate for, 1,494,435
—, —, —, sucrose for, 1,494,434; 1,494,435
—, —, —, sulfur for, 1,494,434; 1,494,435
—, —, sulfuric acid made with, 1,494,434; 1,494,435
—, —, white alkali made using, 1,494,434; 1,494,435
—, *sulfofying, see Bacteria, sulfur oxidizing*
—, swamp, acetic acid made with, 1,400,852
—, —, butyric acid made with, 1,400,852
—, —, esters made with, 1,400,852
—, —, ethyl acetate made with, 1,400,852
—, —, ethyl butyrate made with, 1,400,852
—, —, ethyl propionate made with, 1,400,852
—, —, methyl acetate made with, 1,400,852
—, —, methyl butyrate made with, 1,400,852
—, —, methyl propionate made with, 1,400,852
—, —, propionic acid made with, 1,400,852
—, symbiotic, bacterial compost made with, 1,515,016
—, —, fertilizer contg., 1,261,025; 1,309,723
—, tannic acid made with, 1,311,980
—, thiocyanates removed from ammonia still waste liquors by, 1,437,394
—, tobacco fermented with, cultivation for of, 1,262,623
—, tobacco improved by action of, 1,331,331
—, tubercle, preparation, dry, mfr. of, process for, 1,288,582
—, *Tyrothrix,* yeast, pressed, made with, 1,176,528
—, —, *see also Bacteria, peptonizing*
—, urea forming, fertilizer contg., 1,261,025
—, vaccines prepared from, 1,409,796; 1,457,097
—, vinegar, vinegar made with, 1,272,276
Bacteria felsineus, textile fiber macerated using, 1,473,901
—, *see also Felsinozima*
Bacteria poison, bacteria, nitrifying, resistant to, 1,288,755
—, *see also Bactericide*
Bacteria polymixia, tobacco improved with, 1,331,331
Bacteria preparation, dry, mfr. of, borax for, 1,288,582
—, —, —, glycerol for, 1,288,582
—, —, —, process for, 1,288,582
—, —, —, sodium phosphate, Na_2HPO_4, for, 1,288,582
—, —, —, sodium sulfate for, 1,288,582
—, mfr. of, almonds for, 1,179,625
—, —, biscuit powder for, 1,179,625
—, —, chocolate for, 1,179,625
—, —, meal for, 1,179,625
—, —, nuts for, 1,179,625
—, —, process for, 1,179,625
—, —, sugar for, 1,179,625
Bacterial antibody serum, mfr. of, antipneumococcic serum Type I, 1,484,038
—, —, antipneumococcic serum Type II, 1,484,038
Bacterial antibody serum, mfr. of, antipneumococcic serum Type III, 1,484,038
—, —, process for, 1,484,038
—, —, sodium bicarbonate for, 1,484,038
Bacterial compost, ammonium hydroxide in, 1,254,366
—, ammonium sulfate in, 1,254,366
—, bacteria, *azotibacter* in, 1,254,366
—, —, *Bradicicola* in, 1,254,366
—, —, nitrifying in, 1,254,366
—, calcium carbonate in, 1,254,336
—, lime in, 1,254,366
—, mfr. of, agar agar in, 1,252,332
—, —, alfalfa meal for, 1,515,016
—, —, alkali compound for, 1,320,701
—, —, alkali earth compound for, 1,320,701
—, —, ammonium hydroxide for, 1,254,366
—, —, ammonium sulfate for, 1,254,366
—, —, apatite for, 1,515,016
—, —, bacteria, aerobic in, 1,252,332
—, —, bacterial flora for, 1,320,701
—, —, bacteria, ammonifying in, 1,252,332; 1,515,016
—, —, —, *azotibacter* for, 1,254,366
—, —, —, *azotobacter* in, 1,252,332; 1,320,701
—, —, —, *azotobacter chroococcum* for, 1,320,701
—, —, —, *azotobacter,* for, 1,515,016
—, —, —, *B. azotobacter* for, 1,205,829
—, —, —, *B. radicicola* for, 1,254,366
—, —, —, *B. radiciola* for, 1,320,701
—, —, —, *B. rossica* for, 1,320,701
—, —, —, cellulose destroying for, 1,320,701
—, —, —, legume for, 1,320,701
—, —, —, legume nitrogen fixing, for, 1,515,016
—, —, —, nitrate in, 1,252,332; 1,515,016
—, —, —, nitrifying in, 1,232,322; 1,254,366
—, —, —, nitrite, for, 1,515,016
—, —, —, nitro in, 1,252,,322
—, —, bacteria *nitrobacter* for, 1,252,332; 1,320,701
—, —, —, nitrogen-fixing, in, 1,252,332; 1,320,701; 1,515,016
—, —, —, —, non-symbiotic, in, 1,252,332
—, —, —, —, symbiotic, in, 1,252,332
—, —, —, nitrosomonas for, 1,320,701
—, —, —, non-symbiotic for, 1,320,701
—, —, bacteria non-symbiotic, for, 1,515,016
—, —, —, peptonizing, for, 1,515,016
—, —, —, *Pseudomonas radicola,* for, 1,252,332
—, —, —, symbiotic, for, 1,515,016
—, —, —, sulfur, for, 1,515,016
—, —, blood for, 1,515,016
—, —, blood, dried, for, 1,320,701
—, —, bone meal for, 1,515,016
—, —, borax in, 1,252,332
—, —, boric acid in, 1,252,332
—, —, calcium carbonate for, 1,254,366; 1,320,701; 1,515,016
—, —, calcium hydroxide for, 1,320,701
—, —, calcium phosphate for, 1,320,701
—, —, calcium (acid) phosphate for, 1,320,701
—, —, carbohydrates in, 1,252,332; 1,320,701
—, —, chalk in, 1,252,332
—, —, clay in, 1,352,332
—, —, cotton seed meal for, 1,320,701
—, —, dextrin in, 1,252,332
—, —, dolomite in, 1,252,332

Bacterial compost, mfr. of, fish glue for, 1,515,016
—, —, fish scrap for, 1,515,016
—, —, glauconite for, 1,515,016
—, —, glucose in, 1,252,332
—, —, glue in, 1,252,332
—, —, greensand marl for, 1,515,016
—, —, gums in, 1,252,332
—, —, gypsum in, 1,252,332
—, —, humus in, 1,252,332; 1,515,016
—, —, iron compound for, 1,515,016
—, —, lime for, 1,205,829; 1,252,332; 1,254,366; 1,515,016
—, —, magnesia in, 1,252,332; 1,515,016
—, —, magnesium carbonate for, 1,515,016
—, —, magnesium sulfate in, 1,252,332
—, —, malt for, 1,515,016
—, —, maltose for, 1,515,016
—, —, malt sugar in, 1,252,332
—, —, manganese compound for, 1,515,016
—, —, mannite for, 1,515,016
—, —, manure for, 1,205,829; 1,252,332; 1,320,701
—, —, manure, composing for, 1,320,701
—, —, molasses for, 1,205,829; 1,254,366; 1,320,701; 1,515,016
—, —, molasses, beet sugar for, 1,205,829
—, —, muck in, 1,252,332; 1,254,366; 1,320,701
—, —, peat for, 1,205,829; 1,252,332; 1,254,366; 1,320,701; 1,515,016
—, —, phosphate for, 1,515,016
—, —, phosphates, acid in, 1,252,332
—, —, phosphate rock in, 1,252,332; 1,515,016
—, —, potassium carbonate for, 1,320,701; 1,515,016
—, —, potassium chloride in, 1,252,332; 1,320,701
—, —, potassium hydroxide for, 1,320,701
—, —, potassium phosphate in, 1,252,332; 1,320,701
—, —, potassium (acid) phosphate for, 1,320,701
—, —, potassium rock for, 1,320,701
—, —, potassium salt for, 1,320,701
—, —, potassium sulfate for, 1,252,332; 1,320,701
—, —, process for, 1,205,829; 1,254,366; 1,515,016
—, —, protein for, 1,320,701
—, —, resins in, 1,252,332
—, —, seawood jelly in, 1,252,332
—, —, slag, basic, in, 1,252,332; 1,320,701; 1,515,016
—, —, sodium carbonate for, 1,320,701; 1,515,016
—, —, sodium hydroxide for, 1,320,701
—, —, sodium nitrate for, 1,320,701
—, —, sodium phosphate for, 1,320,701
—, —, sodium (acid) phosphate for, 1,320,701
—, —, soil, bacteria contg., 1,320,701
—, —, starch in, 1,252,332
—, —, sucrose in, 1,252,332; 1,515,016
—, —, sugar in, 1,252,332; 1,320,701
—, —, sugar residue for, 1,254,366
—, —, sulfur for, 1,515,016
—, —, sulfuric acid for, 1,205,829
—, —, syrup for, 1,252,332
—, —, talcum for, 1,252,332
—, —, tankage for, 1,320,701; 1,252,332; 1,515,016
—, —, Thomas slag for, 1,320,701
—, —, waxes in, 1,252,332
—, —, weed compost for, 1,320,701
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—, —, wood fiber in, 1,252,332
—, molasses in, 1,254,366
—, muck in, 1,254,366
—, peat in, 1,254,366
—, sugar residue in, 1,254,366
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—, brilliant green as preservative for, 1,476,233
—, cresol as preservative for, 1,476,233
—, dye, bactericidal as preservative for, 1,476,233
—, dyestuff, acridine series as preservative for, 1,476,233
—, phenol as preservative for, 1,476,233
—, proflavine as preservative for, 1,476,233
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—, fertilizer contg., 1,320,701
—, plant food contg., 1,320,701
—, soil inoculator contg., 1,320,701
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—, alcohols for, 1,250,079
—, beeswax and lard as, 1,286,989
—, benzoic acid for, 1,250,079
—, boric acid for, 1,250,079
—, carbon dioxide for, 1,250,079
—, carbon monoxide for, 1,250,079
—, formaldehyde as, 1,289,093
—, gas for, 1,250,079
—, 3.4.5.3′4′.5′-hexa-amino-arsenobenzene as, 1,156,044
—, hydrocarbon for, 1,250,079
—, hydrogen for, 1,250,079
—, hydrogen dioxide for, 1,250,079
—, lard and beeswax for, 1,286,989
—, mfr. of, acetone for, 1,145,634
—, —, acridine dyestuff for, 1,259,517
—, —, albumen, egg, for, 1,145,634
—, —, —, horse serum, for, 1,145,634
—, —, alcohol for, 1,145,634; 1,259,517
—, —, alkali carbonate for, 1,145,634
—, —, alkali hydroxide for, 1,145,634
—, —, alkali thiocarbonate for, 1,145,634
—, —, allspice for, 1,227,454
—, —, allspice extract for, 1,227,454
—, —, ammonium cyanide for, 1,227,454
—, —, ammonium hydroxide for, 1,145,634
—, —, cacodylic acid for, 1,176,056
—, —, calcium hydroxide for, 1,145,634
—, —, carbon bisulfide for, 1,145,634
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—, —, casein for, 1,145,634
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—, —, cinnamon extract for, 1,227,454
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—, —, copper ammonium acetate for, 1,145,634
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—, —, 3.6-diamino-acridine for, 1,259,517
—, —, 3.6-diamino-2.7-dimethyl-acridine for, 1,259,517

Bactericide, mfr. of, 3.6-diamino-2.7-dimethyl-*N*-methyl-acridine for, 1,259,517
—, —, dyestuff, acridine series, for, 1,259,517
—, —, dyestuff, triphenylmethane type, for, 1,227,454
—, —, ether for, 1,145,634; 1,259,517
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—, —, fibrin for, 1,145,634
—, —, gelatin for, 1,227,454
—, —, glue for, 1,145,634
—, —, hexamethylenetetramine for, 1,227,454
—, —, hydrochloric acid for, 1,259,517
—, —, iron for, 1,145,634
—, —, keratin for, 1,145,634
—, —, malachite green for, 1,227,454
—, —, mercury for, 1,145,634
—, —, mercury acetate for, 1,259,517
—, —, mercury chloride for, 1,259,517
—, —, mercury potassium iodide for, 1,145,634
—, —, mercury salt for, 1,259,517
—, —, methyl chloride for, 1,259,517
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—, —, methyl violet for, 1,227,454
—, —, myosin for, 1,145,634
—, —, oxalic acid for, 1,227,454
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—, —, peptone Witte's for, 1,145,634
—, —, phenol aldehyde condensate for, 1,176,056
—, —, potassium ferricyanide for, 1,227,454
—, —, potassium ferrocyanide for, 1,227,454
—, —, potassium hydroxide for, 1,145,634
—, —, potassium thiocyanate for, 1,227,454
—, —, potassium xanthate for, 1,227,454
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—, brilliant green as preservative for, 1,476,233
—, cresol as preservative for, 1,476,233
—, dye, bactericidal as preservative for, 1,476,233
—, dyestuff, acridine series as preservative for, 1,476,233
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—, iron-alloy, carbon in, made with, 1,335,991
—, —, titanium, made with, 1,335,991
—, —, zirconium made with, 1,335,991
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—, titanium, iron alloy contg., made with, 1,335,991
—, zirconium, alloy from, 1,389,695
—, zirconium, iron alloy contg., made with, 1,335,991
—, zirconium carbide, iron alloy contg., made with, 1,335,983
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—, composition of, 1,286,742
—, decolorizing carbon mfr. from, 1,402,007
—, destructive distillation of, process for, 1,170,487
—, fertilizer made with, 1,170,487
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—, fiber board made with, 1,501,925
—, fuel made from, process for, 1,258,888
—, fuel from sugar cane leaves and, 1,258,888; 1,258,889
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—, obturating material made with, 1,192,661
—, oxalic acid, treatment with of, 1,199,241
—, packing made with, 1,170,488
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—, pith removed from, process for, 1,265,694
—, potash recovery from, 1,455,471
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—, projectile retarding material made with, 1,192,661
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—, sodium hydroxide, treatment with of, 1,199,241
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—, insulation, heat, made with, 1,486,535; 1,501,925
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—, calcium oxide in, 1,194,438
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—, —, —, silk for, 1,212,752
—, fish, forcing from earth, calcium polysulfide for, 1,446,914
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—, —, *Chondrous crispus* for, 1,491,380
—, —, fat for, 1,491,380
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—, —, mucilage for, 1,491,380
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—, calcium lactate, acid in, 1,265,369
—, calcium (acid) phosphate in, 1,442,318
—, carbon dioxide in, apparatus for, determining, 1,338,967
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—, fat in, 1,264,592
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—, —, pancake, self-rising, contg., 1,263,609
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—, lactides in, 1,265,369
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—, —, alum for, 1,274,334; 1,332,561; 1,427,979
—, —, aluminum sulfate for, 1,274,334
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—, —, bacteria, *B. Bulgaricus*, for, 1,230,452
—, —, —, lactic acid, for, 1,230,452
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—, —, bi-*dl*-tartrate for, 1,214,726
—, —, bi-*l*-tartrate for, 1,214,726
—, —, bi-*meso*-tartrate for, 1,214,726
—, —, buttermilk for, 1,322,561
—, —, butyric acid for, 1,286,903
—, —, calcium acetate for, 1,274,334
—, —, calcium carbonate for, 1,230,452
—, —, calcium chloride for, 1,274,334
—, —, calcium lactate, acid, for, 1,265,369
—, —, calcium lactate for, 1,427,979
—, —, (di) calcium mellitate for, 1,134,956
—, —, calcium phosphate for, 1,274,334
—, —, calcium phosphate, (acid) for, 1,286,903
—, —, calcium phosphate, acid, for, 1,134,956
—, —, —, $CaH\ PO_4$, for, 1,427,979
—, —, —, $Ca(H_2PO_4)_2$, for, 1,210,940; 1,427,979
—, —, calcium salt for, 1,274,334
—, —, calcium sulfate for, 1,274,334
—, —, carbonates for, 1,228,252
—, —, casein for, 1,286,145

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—, —, corn starch for, 1,274,334
—, —, cotton seed oil for, 1,210,940
—, —, cotton seed oil, hydrogenated, for, 1,210,940; 1,286,903
—, —, ethyl melitate, acid, for, 1,134,956
—, —, fat for, 1,264,592; 1,286,903; 1,286,904
—, —, flour for, 1,214,726
—, —, food product for, 1,234,858
—, —, lactic acid for, 1,286,903; 1,322,561
—, —, lactide for, 1,265,369; 1,427,979
—, —, magnesium chloride for, 1,274,334
—, —, (di) magnesium mellitate for, 1,134,956
—, —, magnesium phosphate for, 1,427,979
—, —, magnesium salt for, 1,274,334
—, —, mellitate, acid, for, 1,134,956
—, —, mellitic acid for, 1,134,956
—, —, mellitic acid, esters of, acid, for, 1,134,956
—, —, mellitic anhydride for, 1,134,956
—, —, methyl mellitate, acid, for, 1,134,956
—, —, milk, skimmed, for, 1,230,452; 1,322,561
—, —, —, sour, for, 1,230,452; 1,322,561
—, —, milk powder for, 1,274,334
—, —, milk sugar for, 1,286,145
—, —, oil, vegetable, for, 1,210,940
—, —, phosphates for, 1,427,979
—, —, phosphates, acid, for, 1,134,956; 1,322,561
—, —, potassium bitartrate for, 1,134,956; 1,150,901; 1,214,726; 1,264,592; 1,274,334; 1,286,145; 1,286,903; 1,286,904; 1,322,561; 1,427,979
—, —, potassium bi-*d*-tartrate for, 1,214,726
—, —, potassium pyrosulfate for, 1,228,252
—, —, process for, 1,134,956; 1,150,901; 1,210,940; 1,214,726; 1,228,252; 1,230,452; 1,264,592; 1,265,369; 1,274,334; 1,286,903; 1,286,904; 1,322,561; 1,427,979
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—, —, sodium chloride for, 1,210,940
—, —, sodium phosphate for, 1,274,334; 1,427,979
—, —, sodium phosphate, NaH_2PO_4, for, 1,150,901; 1,210,940
—, —, —, Na_2HPO_4, for, 1,150,901
—, —, —, (acid) for, 1,286,903
—, —, sodium pyrosulfate for, 1,228,252
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—, —, sugar for, 1,228,252; 1,322,561
—, —, sugar, milk, for, 1,134,956; 1,274,334
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—, —, *d*-tartaric acid for, 1,214,726
—, —, *di*-tartaric acid for, 1,214,726
—, —, *l*-tartaric acid for, 1,214,726
—, —, *meso*-tartaric acid for, 1,214,726
—, —, *see also Bread, mfr. of*
—, potassium bitartrate in, 1,264,592
Baking powder, sodium bicarbonate in, 1,264,592; 1,265,369; 1,288,428; 1,442,318
—, tartaric acid in, 1,264,592
—, tire filler mfr. with, 1,369,626
—, *see also Effervescent compound; Leavening; Powder, baking*
Baking preparation, formula, wheat flour, corn starch, sugar, fat, egg yolk, albumen, milk, baking powder, salt, coloring matter, flavor, 1,370,272
—, *see also Baking powder*
Baking soda, see Sodium bicarbonate
Bakurol, see Paraffin liquid
Balance, analytical, rapid weighing, 1,377,569
Balas ruby, see Magnesium aluminate $MgAl_2O_3$
Balata, adhesive made with, 1,505,043; 1,510,591
—, aging prevented of, aniline for, 1,320,166
—, —, di-*iso*-amyl-amine for, 1,320,166
—, —, naphthylamine for, 1,320,166
—, —, piperidine for, 1,320,166
—, —, pyridine for, 1,320,166
—, aniline, vulcanization with of, 1,320,166
—, antimony, vulcanization with of, 1,320,166
—, aurotin, vulcanization with of, 1,320,166
—, aurotin tetranitrophenolphthalein, vulcanization with of, 1,320,166
—, barium oxide, vulcanization with of, 1,320,166
—, bath brush made with, 1,162,396
—, belt, woven, impregnated with, 1,310,867
—, belt covering made with, 1,162,396
—, belting made with, 1,218,350
—, belting impregnated with, mfr. of, castor oil, sulfonated, for, 1,219,349
—, —, —, process for, 1,219,349
—, —, —, sulfur for, 1,219,349
—, binder made with, 1,409,275
—, book cloth made with, 1,505,043
—, cable, telephone, insulation of using, 1,153,655
—, calcium oxide, vulcanization with of, 1,320,166
—, cartridge, paper, water-proofing of using, 1,180,704
—, casein composition made with, 1,437,487
—, celluloid substitute made with, 1,217,027
—, cellulose ethers, composition of and, 1,217,028; 1,505,043
—, cellulose xanthate made with, 1,251,237
—, cement made with, 1,236,190; 1,505,043
—, coating contg., 1,293,949
—, coating composition made with, 1,189,551
—, coloring of, aurotin for, 1,320,166
—, —, aurotin tetranitrophenolphthalein for, 1,320,166
—, —, dye, nitro, for, 1,320,166
—, —, hexanitrodiphenylamine for, 1,320,166
—, composition contg., leather and, 1,302,463
—, concrete, coating composition for, made with, 1,189,551
—, container made with, 1,146,787
—, conveyor band made with, 1,218,350
—, cotton, rubber impregnated, made with, 1,197,396
—, deresinification of, 1,406,654
—, di-*iso*-amyl-amine, vulcanization with of, 1,320,166

Balata, dye, nitro, vulcanization with of, 1,320,166
—, ethyl cellulose, composition of and, 1,217,028; 1,505,043
—, fabric, coated, made with, 1,222,967
—, —, impregnating of with, process for, 1,285,105
—, —, waterproof, made with, 1,152,349
—, fabric impregnated with, mfr. of, castor oil, sulfonated, for, 1,219,349
—, —, —, process for, 1,219,349
—, —, —, sulfur for, 1,219,349
—, fiber sheet made with, 1,215,064
—, filament, artificial, made with, 1,217,028; 1,505,043
—, —, —, viscose, made with, 1,251,237
—, filler for, mfr. of, alcohol for, 1,315,246
—, —, —, amyl alcohol for, 1,315,246
—, —, —, amylene for, 1,315,246
—, —, —, carbon bisulfide for, 1,315,246
—, —, —, carbon tetrachloride for, 1,315,246
—, —, —, castor oil for, 1,315,246
—, —, —, chlorine for, 1,315,246
—, —, —, chloroform for, 1,315,246
—, —, —, corn oil for, 1,315,246
—, —, —, cotton seed oil for, 1,315,246
—, —, —, ethyl alcohol for, 1,315,246
—, —, —, gasolene for, 1,315,246
—, —, —, hydrocarbon, unsaturated, for, 1,315,246
—, —, —, hydrochloric acid for, 1,315,246
—, —, —, hydroxy-acids for, 1,315,246
—, —, —, hydroxystearic acid for, 1,315,246
—, —, —, hydroxystearosulfuric acid for, 1,315,246
—, —, —, linseed oil for, 1,315,246
—, —, —, methyl alcohol for, 1,315,246
—, —, —, nitric acid for, 1,315,246
—, —, —, oil, vegetable, for, 1,315,246
—, —, —, olefin for, 1,315,246
—, —, —, oleic acid, sulfonated, for, 1,315,246
—, —, —, sesame oil for, 1,315,246
—, —, —, sodium hypochlorite for, 1,315,246
—, —, —, soya bean oil for, 1,315,246
—, —, —, sulfur for, 1,315,246
—, —, —, sulfur chloride for, 1,315,246
—, —, —, sulfur dioxide for, 1,315,246
—, film made with, 1,217,027
—, gasket made with, 1,409,275; 1,409,276
—, gelatin substitute made with, 1,217,027
—, glue made with, 1,505,043
—, golf ball treated with, 1,405,845; 1,185,432; 1,255,388; 1,366,930; 1,477,516
—, gutta percha mixed with, 1,293,949
—, hair, artificial, made with, 1,217,028; 1,505,043
—, hexanitrodiphenylamine, vulcanization with of, 1,320,166
—, hose made with, 1,199,922
—, insulation, electric, made with, 1,493,062
—, lacquer made with, 1,505,043
—, latex of, drying, 1,423,525; 1,423,526
—, lead chromate as pigment of, 1,312,144
—, —, vulcanization accelerator, 1,312,144
—, lead oxide, red, as pigment of, 1,312,144
—, —, —, vulcanization accelerator, 1,312,144
—, —, vulcanization with of, 1,320,166
Balata, leather, artificial, made with, 1,217,123; 1,276,113; 1,493,062; 1,505,043
—, —, —, viscose, made with, 1,251,237
—, —, coating for, made with, 1,505,043
—, leather rubberizing solution contg., 1,425,530
—, leather substitute made with, 1,409,275; 1,409,276
—, linen impregnated with, mfr. of, castor oil, sulfonated, for, 1,219,349
—, —, —, process for, 1,219,349
—, —, —, sulfur for, 1,219,349
—, magnesium oxide, vulcanization with of, 1,320,166
—, membranes made with, 1,505,043
—, molded article made with, 1,409,275
—, naphthylamine, vulcanization with of, 1,320,166
—, packing made with, 1,162,396; 1,409,275; 1,409,276
—, paint made with, 1,505,043
—, paper made with, 1,489,330
—, paper, coating for, made with, 1,505,043
—, paper sized using, 1,203,857
—, paste made with, 1,505,043
—, photographic emulsion made with, 1,505,043
—, pigment, affixing agent for, made with, 1,505,043
—, piperidine, vulcanization with of, 1,320,166
—, plastic made with, 1,146,787; 1,236,190
—, printing paste made with, 1,505,043
—, purifying, 1,406,654
—, —, gasoline for, 1,406,654
—, pyridine, vulcanization with of, 1,320,166
—, resin reduced in, cable, telephone, insulation of using, 1,153,655
—, rubber, cotton impregnated with, 1,197,396
—, —, hard, substitute for made with, 1,128,851
—, —, textile impregnated with, made with, 1,197,396
—, —, thread impregnated with, made with, 1,197,396
—, rubber article made with, 1,199,922; 1,209,644; 1,493,062
—, rubber composition contg., 1,455,893
—, rubber substitute made with, 1,409,275
—, shoe filler made with, 1,203,435
—, shoe heel made with, 1,152,349; 1,162,396
—, shoe insole "Gem," made with, 1,222,967
—, shoe sole made with, 1,162,396
—, silk, artificial, made with, 1,217,028; 1,505,043
—, sizing made with, 1,505,043
—, soap, rosin, made with, 1,203,857
—, sodium alcoholate, vulcanization with of, 1,320,166
—, solvent for, benzene as, 1,180,704; 1,285,105; 1,312,452
—, —, benzine as, 1,312,452
—, —, carbon bisulfide as, 1,180,704; 1,425,530
—, —, carbon tetrachloride as, 1,180,704
—, —, gasolene as, 1,312,452; 1,406,654
—, —, naphtha as, 1,410,685; 1,425,530
—, —, petroleum spirit as, 1,425,530
—, —, recovery of, alcohol for, 1,312,452
—, —, —, calcium chloride for, 1,312,452
—, —, —, mineral oil for, 1,312,452

Balata, solvent for, recovery of, paraffin oil for, 1,312,452
—, —, —, process for, 1,312,452
—, —, rosin as, 1,203,857
—, sponge, artificial, made with, 1,142,619
—, substitute for, mfr. of, alcohol for, 1,315,246
—, —, —, amyl alcohol for, 1,315,246
—, —, —, amylene for, 1,315,246
—, —, —, carbon bisulfide for, 1,315,246
—, —, —, carbon tetrachloride for, 1,315,246
—, —, —, castor oil for, 1,315,246
—, —, —, chlorine for, 1,315,246
—, —, —, chloroform for, 1,315,246
—, —, —, corn oil for, 1,315,246
—, —, —, cotton seed oil for, 1,315,246
—, —, —, ethyl alcohol for, 1,315,246
—, —, —, gasolene for, 1,315,246
—, —, —, hydrocarbon, unsaturated, for, 1,315,246
—, —, —, hydrochloric acid for, 1,315,246
—, —, —, hydroxy-acids for, 1,315,246
—, —, —, hydroxystearic acid for, 1,315,246
—, —, —, hydroxystearosulfuric acid for, 1,315,246
—, —, —, linseed oil for, 1,315,246
—, —, —, methyl alcohol for, 1,315,246
—, —, —, nitric acid for, 1,315,246
—, —, —, oil, vegetable, for, 1,315,246
—, —, —, olefin for, 1,315,246
—, —, —, oleic acid, sulfonated, for, 1,315,246
—, —, —, sesame oil for, 1,315,246
—, —, —, sodium hypochlorite for, 1,315,246
—, —, —, soya bean oil for, 1,315,246
—, —, —, sulfur for, 1,315,246
—, —, —, sulfur chloride for, 1,315,246
—, —, —, sulfur dioxide for 1,315,246
—, sulfur, vulcanization with of, 1,320,166
—, tire made with, 1,199,922
—, tennis ball made with, 1,209,644
—, textile, coating for, made with, 1,505,043
—, —, rubber impregnated, made with, 1,197,396
—, thread, rubber impregnated, made with, 1,197,396
—, tire made with, 1,152,349; 1,162,396
—, tire, froth filling for, made of, 1,167,518
—, Tumaco block, shoe mfr. adhesive contg., 1,410,685
—, varnish made with, 1,505,043
—, Venezuelan, shoe mfr. adhesive contg., 1,410,685
—, viscose made with, 1,251,237
—, viscose plasticizer, 1,251,237
—, vulcanization accelerator for, aniline and metal oxide as, 1,320,166
—, —, barium oxide as, 1,320,166
—, —, calcium oxide as, 1,320,166
—, —, di-*iso*-amyl-amine and metal oxide as, 1,320,166
—, —, lead oxide as, 1,320,166
—, —, magnesium oxide as, 1,320,166
—, —, naphthylamine and metal oxide as, 1,320,166
—, —, piperidine and metal oxide as, 1,320,166
—, —, pyridine and metal oxide as, 1,320,166
—, —, zinc oxide as, 1,320,166
—, *vulcanization of, accelerator for, see Vulcanization accelerator*
Balata, vulcanization of, acetphenylenediamine acetaldehyde, compound of and for, 1,417,970
—, —, air for, 1,213,905
—, —, aluminum oxide for, 1,289,566
—, —, aniline for, 1,320,166
—, —, —, acetaldehyde, compound of and, for, 1,417,970
—, —, antimony for, 1,320,166
—, —, aurotin for, 1,289,566; 1,320,166
—, —, aurotin tetranitrophenolphthalein for, 1,320,166
—, —, barium oxide for, 1,320,166
—, —, benzidine acetaldehyde, compound of and, for, 1,417,970
—, —, benzoyl peroxide for, 1,289,566
—, —, benzylamine for, acetaldehyde, compound of and, for, 1,417,970
—, —, butyraldehyde, aniline for, compound of and, for, 1,417,970
—, —, *iso*-butyraldehyde, aniline compound of and, for, 1,417,970
—, —, butyraldehyde, diethylamine compound of and, for, 1,417,970
—, —, butyraldehyde, ethylamine compound of and, for, 1,417,970
—, —, —, *p*-toluidine compound of and, for, 1,417,970
—, —, calcium oxide for, 1,320,166
—, —, cauprene bromide for, 1,242,586
—, —, cauprene chlorides for, 1,242,586
—, —, cinnamaldehyde, aniline compound of and, for, 1,417,970
—, —, —, ethylamine compound of and, for, 1,417,970
—, —, citronellal, aniline compound of and, for, 1,417,970
—, —, di-*iso*-amyl-amine for, 1,320,166
—, —, diethylamine acetaldehyde compound of and, for, 1,417,970
—, —, dinitrobenzene for, 1,289,566; 1,312,144
—, —, dinitrotoluene for, 1,289,566
—, —, diphenylamine acetaldehyde, compound of and, for, 1,417,970
—, —, duodecylidine, aniline compound of and, for, 1,417,970
—, —, dye, nitro for, 1,320,166
—, —, dyestuff, nitro, for, 1,289,566
—, —, ethylamine for, acetaldehyde, compound of and, for, 1,417,970
—, —, glucose, ammonia compound of and, for, 1,417,970
—, —, —, aniline compound of and, for, 1,417,970
—, —, hepaldehyde, benzylamine compound of and, for, 1,417,970
—, —, —, diethylamine compound of and, for, 1,417,970
—, —, —, ethylamine compound of and, for, 1,417,970
—, —, —, methylamine compound of and, for, 1,417,970
—, —, —, naphthylamine compound of and, for, 1,417,970
—, —, —, *p*-toluidine compound of and, for, 1,417,970
—, —, hexanitrodiphenylamine for, 1,320,166

Balata, vulcanization of, hydrocarbon, aromatic nitro derivative of, for, 1,312,144
—, —, hydroxylamine, acetaldehyde, compound of and, for, 1,417,970
—, —, lead oxide for, 1,320,166
—, —, litharge for, 1,289,566
—, —, magnesium oxide for, 1,320,166
—, —, methylamine, acetaldehyde, compound of and, for, 1,417,970
—, —, *n*-methyl-aniline, acetaldehyde, compound of and, for, 1,417,970
—, —, musk, artificial, for, 1,289,566
—, —, naphthylamine for, 1,320,166
—, —, 2-naphthylamine acetaldehyde, compound of and, for, 1,417,970
—, —, *m*-nitraniline, acetaldehyde, compound of and, for, 1,417,970
—, —, *p*-nitraniline, acetaldehyde, compound of and, for, 1,417,970
—, —, nitrobenzene for, 1,289,566; 1,312,144
—, —, nitro-compounds for, 1,289,566
—, —, nitro-cyclohexane for, 1,289,566
—, —, nitrotoluene for, 1,289,566
—, —, nonylaldehyde, aniline, compound of and, for, 1,417,970
—, —, octylaldehyde, aniline, compound of and, for, 1,417,970
—, —, perbenzoic acid for, 1,289,566
—, —, peroxycompounds for, 1,289,566
—, —, *p*-phenylenediamine, acetaldehyde, compound of and, for, 1,417,970
—, —, phenylhydrazene, acetaldehyde, compound of and, for, 1,417,970
—, —, picramic acid for, 1,289,566
—, —, picric acid for, 1,289,566
—, —, picrylchloride for, 1,289,566
—, —, piperidine for, 1,320,166
—, —, polyheptylidene, aniline, compound of and, for, 1,417,970
—, —, process for, 1,158,843; 1,213,905; 1,242,586; 1,289,566; 1,417,970
—, —, propionaldehyde, aniline, compound of and, for, 1,417,970
—, —, —, ethylamine, compound of and, for, 1,417,970
—, —, pyridine for, 1,320,166
—, —, rubber, synthetic, bromides, for, 1,242,586
—, —, —, —, chlorides, for, 1,242,586
—, —, —, —, dimethylerythrene, bromide, for, 1,242,586
—, —, —, —, hydrochlorides for, 1,242,586
—, —, rubber bromides for, 1,242,586
—, —, rubber chlorides for, 1,242,586
—, —, rubber hydrochlorides for, 1,242,586
—, —, rubber ozonide for, 1,242,586
—, —, sodium alcoholate for, 1,320,166
—, —, stearaldehyde, aniline, compound of and, for, 1,417,970
—, —, sulfur for, 1,320,166; 1,417,970
—, —, tetranitronaphthalene for, 1,289,566
—, —, *o*-toluidine, acetaldehyde, compound of and, for, 1,417,970
—, —, *p*-toluidine, acetaldehyde, compound of and, for, 1,417,970
Balata, vulcanization of, *m*-tolylenediamine for, acetaldehyde, compound of and, for, 1,417,970
—, —, triamino-toluene, acetaldehyde, compound of and, for, 1,417,970
—, —, trinitrobenzene for, 1,289,566
—, —, trinitronaphthalene for, 1,289,566
—, —, trinitrotoluene for, 1,289,566
—, —, urea, acetaldehyde, compound of and, for, 1,417,970
—, —, valeraldehyde, aniline, compound of and, for, 1,417,970
—, —, —, ethylamine, compound of and, for, 1,417,970
—, —, zinc oxide for, 1,320,166; 1,417,970
—, —, *see also Vulcanization*
—, vulcanizing, 1,417,970; 1,433,099
—, —, aniline for, 1,463,794
—, —, arsenic compounds for, 1,463,794
—, —, benzene for, 1,463,794
—, —, benzylamine for, 1,463,794
—, —, cadmium compounds for, 1,463,794
—, —, carbon bisulfide for, 1,463,794
—, —, carbon dioxide for, 1,463,794
—, —, carbon oxysulfide for, 1,463,794
—, —, carbon tetrachloride for, 1,463,794
—, —, copper compounds for, 1,463,794
—, —, dibenzylamine for, 1,463,794
—, —, diethylamine for, 1,463,794
—, —, dimethylamine for, 1,463,794
—, —, flue gas for, 1,463,794
—, —, lead compounds for, 1,463,794
—, —, manganese compounds for, 1,463,794
—, —, mercury compounds for, 1,463,794
—, —, methylamine for, 1,463,794
—, —, nitrogen for, 1,463,794
—, —, ozone for, 1,433,093
—, —, piperidine for, 1,463,794
—, —, piperidinepiperidyldithiocarbamate for, 1,463,794
—, —, sulfur for, 1,463,794
—, —, *p*-toluidine for, 1,463,794
—, —, tribenzyltrimethylenetriamine for, 1,463,794
—, —, triethyltrimethylenetriamine for, 1,463,794
—, —, zinc compounds, for, 1,463,794
—, —, zinc oxide for, 1,463,794
—, waterproofing composition contg., 1,395,885
—, waterproofing process using, 1,180,704
—, white lead as pigment of, 1,312,144
—, white lead, vulcanization accelerator, 1,312,144
—, zinc oxide, vulcanization with of, 1,320,166
—, *see also Almaddeina; Besk; Chicle; Dead Borneo; Gutta Jelutong; Gutta percha; Pontianak; Rubber; Tuna*
Balata article, mfr. of, process for, 1,211,228; 1,516,629
—, vulcanization of, alloy, fusible, for, 1,152,834
—, —, barium nitrate for, 1,152,834
—, —, calcium chloride bath for, 1,152,834
—, —, calcium nitrate for, 1,152,834
—, —, glycerol for, 1,152,834
—, —, potassium acetate for, 1,152,834
—, —, potassium carbonate for, 1,152,834
—, —, potassium hydroxide for, 1,152,834

Balata article, vulcanization of, sodium hydroxide for, 1,152,834
—, —, sulfur for, 1,152,834
—, —, tar for, 1,152,834
—, —, wax for, 1,152,834
Balata latex, chlorination of, ammonium hydroxide for, 1,491,265
—, —, benzene for, 1,491,265
—, —, chlorine for, 1,491,265
—, —, kieselguhr for, 1,491,265
—, —, magnesium carbonate for, 1,491,265
—, —, process for, 1,491,265
—, cord, rubber coated, made using, 1,512,095
—, flooring made with, 1,491,265
—, paper made with, 1,500,500
—, rubber, cord coated with, made using, 1,512,095
—, paper, rubber-latex, made with, 1,497,146
—, rubber article made with, 1,491,265
Baldwin's phosphorus, see Calcium nitrate
Bale tie bands, treatment of, process for, 1,476,346
Ball, actinium in, 1,260,788
—, billiard, mfr. of, aluminum powder for, 1,160,362; 1,160,365
—, —, —, aluminum salt for, 1,160,362; 1,160,365
—, —, —, asbestos for, 1,160,362; 1,160,365
—, —, —, cellulose for, 1,160,362; 1,160,365
—, —, —, cellulose, soda, for, 1,160,362; 1,160,365
—, —, —, —, sulfite, for, 1,160,362; 1,160,365
—, —, —, clay, china, for, 1,160,362; 1,160,365
—, —, —, cobalt salt for, 1,160,362; 1,160,365
—, —, —, copper salt for, 1,160,362; 1,160,365
—, —, —, cotton for, 1,160,362; 1,160,365
—, —, —, esparto for, 1,160,362; 1,160,365
—, —, —, formaldehyde for, 1,160,362; 1,160,365
—, —, —, glue for, 1,160,362; 1,160,365
—, —, —, iron salt for, 1,160,362; 1,160,365
—, —, —, linen for, 1,160,362; 1,160,365
—, —, —, mica for, 1,160,362; 1,160,365
—, —, —, nickel salt for 1,160,362; 1,160,365
—, —, —, phenol for, 1,160,362; 1,160,365
—, —, —, phenol aldehyde condensate for, 1,160,362; 1,160,365
—, —, —, process for, 1,160,362; 1,160,365
—, —, —, rags for, 1,160,362; 1,160,365
—, —, —, soap, resinous, for, 1,160,362; 1,160,365
—, —, —, soapstone for, 1,160,362; 1,160,365
—, —, —, starch for, 1,160,362; 1,160,365
—, —, —, wood pulp for, 1,160,362; 1,160,365
—, —, —, wood pulp, mechanical, for, 1,160,362; 1,160,365
—, —, —, zinc salt for, 1,160,362; 1,160,365
—, —, *see also Billiard ball*
—, *golf, see Golf ball*
—, gutta percha in, 1,260,788
—, hollow, mfr. of, apparatus for, 1,134,433
—, —, —, cotton flock for, 1,134,433
—, —, —, dinitrobenzene for, 1,134,433
—, —, —, hexamethylenetramine for, 1,134,433
—, —, —, naphthalene for, 1,134,433
—, —, —, naphthalene derivatives for, 1,134,433
—, —, —, paraformaldehyde for, 1,134,433
—, —, —, phenol, chlorinated, for, 1,134,433
—, —, —, phenol aldehyde condensate for, 1,134,433
Ball, hollow, mfr. of, process for, 1,134,433
—, —, —, wood flour for, 1,134,433
—, mfr. of, actinum for, 1,260,788
—, —, ammonium chloride for, 1,240,439
—, —, ammonium nitrite for, 1,240,439
—, —, apparatus for, 1,240,438; 1,240,439
—, —, barytes for, 1,298,410
—, —, casein for, 1,156,144
—, —, celluloid for, 1,156,144; 1,240,438; 1,240,439
—, —, glue for, 1,155,575
—, —, glycerol for, 1,155,575; 1,298,410
—, —, gutta percha for, 1,240,438; 1,240,439; 1,260,788
—, —, iron core for, 1,156,144
—, —, ivory, imitation, for, 1,240,438
—, —, lead, red, for, 1,298,410
—, —, —, white, for, 1,298,410
—, —, lead alkyl sulfate for, 1,298,410
—, —, lead ethyl sulfate for, 1,298,410
—, —, mesothorium for, 1,260,788
—, —, metal core for, 1,156,144
—, —, pitchblende for, 1,260,788
—, —, polonium for, 1,260,788
—, —, potassium chromate for, 1,155,755
—, —, process for, 1,155,575; 1,156,144; 1,240,438; 1,240,439; 1,260,788; 1,298,410; 1,517,859
—, —, radium for, 1,260,788
—, —, rubber for, 1,155,575; 1,240,438; 1,260,788
—, —, rubber, hard, for, 1,156,144
—, —, rubber cement for, 1,240,438
—, —, rubber substitute for, 1,155,575
—, —, rubber thread for, 1,240,439
—, —, soap for, 1,298,410
—, —, sodium nitrite for, 1,240,439
—, —, uranium ore for, 1,260,788
—, —, uranium mineral for, 1,260,788
—, —, zinc chloride for, 1,298,410
—, mesothorium in, 1,260,788
—, *pipe, see Pipe balls*
—, pitchblende in, 1,260,788
—, polonium in, 1,260,788
—, pool, mfr. of, process for, 1,304,851
—, rubber in, 1,260,788
—, rubber, mfr. of, calcium oxide for, 1,493,370
—, —, —, lead oxide for, 1,493,370
—, —, —, metal oxide for, 1,493,370
—, —, —, naphtha for, 1,493,370
—, —, —, process for, 1,493,370
—, —, —, rubber for, 1,493,370
—, —, —, rubber cement for, 1,493,370
—, —, —, sulfur for, 1,493,370
—, —, —, zinc oxide for, 1,493,370
—, *steel, see Steel ball*
—, *tennis, see Tennis ball*
—, uranium mineral in, 1,260,788
—, uranium ore in, 1,260,788
—, *see also Billiard ball; Golf ball; Resilient body*
Ball bearings, alloy for mfr. of, 1,431,725
Ball clay, abrasive contg., 1,364,849
—, refractory brick made from, 1,345,632
—, *see also Clay ball*
Ballistic, see Ballistite
Ballistite, blasting explosives made from, 1,382,287

Ballistite, explosive, container for, made with, 1,329,503
—, Italian, starch added to, 1,349,983
—, mfr. of, electrical process for, 1,333,701
—, Norwegian, starch added to, 1,349,983
—, properties of, 1,194,561
—, sprouting, starch added to, 1,349,983
—, weakening, dicyanodiamide for, 1,409,963
—, —, nitroguanidine for, 1,409,963
—, *see also Cellulose nitrate; Dynamite, Gelatin dynamite; Gelignite, Powder smokeless*
Ball mill, lining for, mfr. of, asphalt, Barber Trinidad, for, 1,521,169
—, —, —, bituminous material for, 1,521,169
—, —, —, cement, asbestine oxychloride for, 1,521,169
—, —, —, process for, 1,521,169
—, —, —, rubber for, 1,521,169
Ballontino, motion-picture screen made with, 1,204,775
—, *see also Glass globules*
Balloon, fabric for, mfr. of, process for, 1,131,929
—, —, *see also Gas-bag; Air-craft*
—, fireproofing, 1,427,941
—, radio-active coating for, 1,180,732
—, sound producing, mfr. of, process for, 1,185,601
—, —, —, rubber for, 1,185,601
—, —, —, wax for, 1,185,601
—, —, —, wood for, 1,185,601
—, static electricity discharged from surface of using radio-active substance, 1,180,732
—, toy, coloring of, benzene for, 1,239,180
—, —, —, carbon bisulfide for, 1,239,180
—, —, —, carbon tetrachloride for, 1,239,180
—, —, —, dyestuff for, 1,239,180
—, —, —, process for, 1,239,180
—, —, —, rubber solution for, 1,239,180
—, —, —, sulfur chloride for, 1,239,180
—, —, ornamenting of, benzene for, 1,251,182
—, —, —, gasolene for, 1,251,182
—, —, —, naphtha for, 1,251,182
—, —, —, process for, 1,251,182
—, —, —, rubber cement for, 1,251,182
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—, varnishing of, aluminum dust for, 1,281,374
—, —, French chalk for, 1,281,374
—, —, linseed oil for, 1,281,374
—, —, litharge for, 1,281,374
—, —, ochre, yellow, for, 1,281,374
—, —, process for, 1,281,374
—, —, varnish for, 1,281,374
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Balloon cloth, airplane covering material made with, 1,519,239
—, coloring, antimony sulfide for, 1,332,982
—, —, cadmium sulfide for, 1,332,974
—, wire-reinforced, 1,442,323
Balloon covering material, mfr. of, apparatus for, 1,243,041; 1,243,654; 1,243,655
—, —, brass wire netting for, 1,243,041; 1,243,654; 1,243,655
—, —, bronze wire netting for, 1,243,041; 1,243,654; 1,243,655
—, —, cellulose nitrate for, 1,243,041; 1,243,654
—, —, copper for, 1,243,655
Balloon covering material, mfr. of, copper foil for, 1,243,654
—, —, copper wire netting for, 1,243,041; 1,243,654; 1,243,655
—, —, graphite for, 1,243,655
—, —, metal foil, 1,243,041; 1,243,654
—, —, nickel for, 1,243,655
—, —, oil for, 1,243,654
—, —, process for, 1,243,041; 1,243,654; 1,243,655
—, —, silver for, 1,243,654
—, —, silver foil for, 1,243,041; 1,243,654
—, —, steel wire netting for, 1,243,041; 1,243,654; 1,243,655
—, —, tin for, 1,243,654
—, —, tin foil for, 1,243,041; 1,243,654
—, —, tin salt for, 1,243,654
—, —, varnish for, 1,243,041; 1,243,654
—, —, wire netting for, 1,243,041; 1,243,654
Balloon envelope, goldbeater's skin for mfr. of, 1,452,229
Balloon fabric, bird-lime in, 1,460,053
—, coating, gelatin for, 1,407,197
—, impermeabilizing, caoutchouc and cellulose acetate for, 1,431,845
—, mfr. of, 1,460,053
—, —, acetone for, 1,427,941
—, —, algin for, 1,427,941
—, —, alum for, 1,427,941
—, —, aluminum phosphate for, 1,427,941
—, —, aluminum sulfate for, 1,427,941
—, —, ammonium magnesium phosphate for, 1,427,941
—, —, ammonium phosphate for, 1,427,941
—, —, ammonium sodium phosphate for, 1,427,941
—, —, ammonium salts for, 1,427,941
—, —, ammonium sulfate for, 1,427,941
—, —, amyl acetate for, 1,378,804; 1,427,941
—, —, asphalt for, 1,427,941
—, —, beeswax for, 1,427,941
—, —, borax for, 1,427,941
—, —, butyl acetate for, 1,378,804
—, —, calcium chloride for, 1,427,941
—, —, camphor for, 1,427,941
—, —, canvas for, 1,427,941
—, —, castor oil for, 1,378,804; 1,427,941
—, —, celluloid for, 1,378,804
—, —, cellulose acetate for, 1,427,941
—, —, cellulose nitrate for, 1,378,804; 1,427,941
—, —, cellulose sulfite liquor for, 1,427,941
—, —, ceresin for, 1,427,941
—, —, cotton for, 1,247,653; 1,427,941
—, —, gelatin for, 1,378,804; 1,427,941
—, —, glucose for, 1,427,941
—, —, glucose, confectioners, for, 1,427,941
—, —, glue for, 1,378,804; 1,427,941
—, —, glycerol for, 1,378,804; 1,427,941
—, —, glycol for, 1,427,941
—, —, honey for, 1,427,941
—, —, Irish moss for, 1,427,941
—, —, linen for, 1,247,658; 1,427,941
—, —, magnesium chloride for, 1,427,941
—, —, molasses for, 1,427,941
—, —, naphtha for, 1,378,804
—, —, naphtha, coal tar, for, 1,378,804
—, —, paraffin for, 1,427,941

Balloon fabric, mfr. of, phenol aldehyde condensate for, 1,427,941
—, —, pitch for, 1,427,941
—, —, process for, 1,247,658; 1,378,804; 1,427,941
—, —, rubber for, 1,247,658; 1,378,804; 1,427,941
—, —, rubber cement for, 1,247,658
—, —, salicylic acid for, 1,427,941
—, —, silk for, 1,247,658
—, —, sodium phosphate for, 1,427,941
—, —, sodium sulfate for, 1,427,941
—, —, sugar for, 1,427,941
—, —, varnish for, 1,427,941
—, —, varnish, spar, for, 1,427,941
—, —, viscose for, 1,427,941
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Balm of Gilead buds, see Poplar buds
Baloonet, gas-tight lining for, mfr. of, cellulose nitrate for, 1,378,804
Balsa, insulation, heat, made with, 1,133,299
Balsa charcoal, explosive contg., 1,282,229; 1,508,185
Balsade palmo wood, treatment of, asphalt for, 1,203,577
—, —, bitumen for, 1,203,577
—, —, paraffin for, 1,203,577
—, —, process for, 1,203,577
—, —, resin for, 1,203,577
—, waterproofing of, asphalt for, 1,203,577
—, —, bitumen for, 1,203,577
—, —, paraffin for, 1,203,577
—, —, process for, 1,203,577
—, —, rosin for, 1,203,577
Balsams, adhesive made with, 1,389,084; 1,505,043
—, airplane fabric mending composition made with, 1,389,084
—, aluminum, acid resistant, made with, 1,130,196
—, —, alkali resistant, made with, 1,130,196
—, aluminum treated with, 1,130,196
—, apocholic acid, compound of and, 1,479,695
—, boat mending composition made with, 1,389,084
—, book cloth made with, 1,505,043
—, Canada, color-photography screen produced with, 1,446,050
—, Canada, ink contg., 1,439,695; 1,439,696
—, —, *see Canada Balsam; Turpentine, Canada*
—, Canadian, picture made with, 1,144,964
—, celluloid film colored with, 1,446,050
—, cellulose ether, composition of and, 1,188,376; 1,505,043; 1,505,044
—, cement made with, 1,505,043
—, colloidal fuel stabilized with, 1,447,008
—, *copal, see Liquidamber*
—, cork article, artificial, made with, 1,131,860
—, desoxycholic acid, compound of and, 1,479,695
—, enamel, plastic, contg., 1,389,084
—, envelopes transparentized with, 1,341,807
—, ethyl cellulose, composition of and, 1,505,043; 1,505,044
Balsams, ethyl starch, compounds of and, 1,350,820
—, film made with, 1,505,044
—, fir, leather preserving composition contg., 1,398,600
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—, glue made with, 1,505,043
—, hair, artificial, made with, 1,505,043
—, lacquer made with, 1,505,043
—, leather, artificial, made with, 1,505,044
—, —, coating for, made with, 1,505,043; 1,505,044
—, magnesium resinate made with, 1,398,525
—, membranes made with, 1,505,043
—, mending composition made with, 1,389,084
—, methyl cellulose, composition made with, 1,389,084; 1,505,044
—, paint made with, 1,505,043
—, paper, coating for, made with, 1,505,043; 1,505,044
—, —, transparent, prepared with, 1,419,750
—, paste made with, 1,505,043
—, Peru, color-photography screen produced with, 1,446,050
—, phenol aldehyde condensate made with, 1,191,390
—, photographic emulsion made with, 1,505,043
—, pigment, affixing agent for, made with, 1,505,043
—, pipe mending composition made with, 1,389,084
—, plastic made with, 1,389,084; 1,505,044
—, printing paste made with, 1,505,043
—, rubber, devulcanizing of with, 1,322,152
—, rubber mending composition made with, 1,389,084
—, silk, artificial, made with, 1,505,043; 1,505,044
—, sizing made with, 1,505,043; 1,505,044
—, solvent for, turpentine as, 1,419,750
—, starch ethers, compounds of and, 1,350,820
—, starch ethers incorporated with, 1,350,820
—, tanning compound made with, 1,399,510
—, teeth, artificial, mending composition for, made with, 1,389,084
—, textile, coating for, made with, 1,505,043; 1,505,044
—, therapeutic compounds made with, 1,479,695
—, varnish made with, 1,505,043
—, waterproofing made with, 1,389,084
—, wood work mending composition made with, 1,389,084
—, zinc resinate made with, 1,398,525
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—, incense made with, 1,216,710
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Balsam of Pine, ink, printers, medicated, made with, 1,233,962
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Balsam wood pulp, wall board made with, 1,374,931
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Balsamum Tolutanum, see Tolu balsam
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—, buoy made with, 1,121,644; Re-13,952
—, carbureter float made of, 1,262,345
—, cistern float made of, 1,262,345
—, diaphragm, sound reproducing, made with, 1,492,982
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—, fender made with, 1,121,644; Re-13,952
—, fireproofing for, mfr. of, anthracene for, 1,194,558
—, —, —, asphalt for, 1,194,558
—, —, —, bromine for, 1,194,558
—, —, —, creosote oil for, 1,194,558
—, —, —, dead oil for, 1,194,558
—, —, —, gas tar for, 1,194,558
—, —, —, hydrocarbon for, 1,194,558
—, —, —, naphthalene for, 1,194,558
—, —, —, pitch for, 1,194,558
—, —, —, process for, 1,194,558
—, —, —, tar for, 1,194,558
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—, floor covering contg., saw dust from, 1,358,371
—, gasket made with, 1,493,615
—, insulation, heat, made with, 1,486,113; 1,489,340
—, life-preserver made with, 1,121,644; Re-13,952
—, lumber contg., 1,444,466
—, oxygen, liquid, absorbed by, 1,408,293
—, ozone, liquid, absorbed by, 1,408,293
—, ship, torpedo protecting device for, made with, 1,233,237
—, water-proofing of, diatomaceous earth for, 1,121,644; Re-13,952; 1,262,345
—, —, dye for, 1,121,644; Re-13,952; 1,262,345
—, —, linseed oil for, 1,262,345
—, —, mfr. of, anthracene for, 1,194,558
—, —, —, asphalt for, 1,194,558
—, —, —, bromine for, 1,194,558
—, —, —, creosote oil for, 1,194,558
—, —, —, dead oil for, 1,194,558
—, —, —, gas tar for, 1,194,558
—, —, —, naphthalene for, 1,194,558
—, —, —, pitch for, 1,194,558
—, —, —, process for, 1,194,558
—, —, —, tar for, 1,194,558
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—, —, Paris green for, 1,121,644; Re-13,952; 1,262,345
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—, —, rosin for, 1,121,644; Re-13,952; 1,262,345
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—, calcium hydroxide treatment for, 1,296,553
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—, cutlery made of, 1,188,573
—, enamel, natural, removed from, 1,296,553
—, extraction of, preparing for, 1,372,512
—, glazed surface for, mfr. of, process for, 1,245,981
—, lacquering for, mfr. of, process for, 1,245,981
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—, paper, greaseproof, made with, 1,286,502
—, —, kraft, made with, 1,244,525
—, —, parchment like, made with, 1,286,502
—, paper pulp made with, 1,143,401; 1,192,640
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—, roofing made with, 1,492,610
—, sodium hydroxide treatment for, 1,296,553
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—, textile fibers from, 1,362,723
—, vinegar made with, 1,164,063
Bamboo arundinacea, cellulose made with, 1,192,640
—, paper pulp made with, 1,192,640
Bamboo fiber, alkali hydroxide for, 1,193,703
—, —, treatment of, potassium hydroxide for, 1,193,703
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—, animal food made with, 1,188,678
—, beer made with, 1,214,518
—, beverage made with, 1,214,518
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—, lactic acid made with, 1,214,518
—, malt substitute made with, 1,214,518
—, porter made with, 1,214,518
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—, —, dextrin made with, 1,267,081
—, —, ethyl alcohol made with, 1,267,081
—, —, maltose made with, 1,267,081
—, sake made with, 1,214,518
—, starch made with, 1,156,801
—, vinegar made with, 1,214,518
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Banana extract, food product made with, 1,172,270
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Banana plant, acetic acid from, 1,271,591
—, acetic acid, treatment with of, 1,271,591
—, acetone from, 1,271,591
—, acetone, treatment with of, 1,271,591
—, aldehyde from, 1,271,591
—, aldehyde, treatment with of, 1,271,591
—, butyric acid from, 1,271,591
—, butyric acid, treatment with of, 1,271,591
—, carbon dioxide from, 1,271,591
—, carbon dioxide, treatment with of, 1,271,591
—, cardboard made with, 1,181,553
—, degumming of, process for, 1,271,591
—, formic acid from, 1,271,591
—, formic acid, treatment with of, 1,271,591
—, methyl acetate from, 1,271,591
—, methyl acetate, treatment with of, 1,271,591
—, methylal from, 1,271,591
—, methylal, treatment with of, 1,271,591
—, methyl alcohol from, 1,271,591
—, methyl alcohol, treatment with of, 1,271,591
—, paper made with, 1,181,553; 1,286,502
—, paper, greaseproof, made with, 1,286,502
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—, tannic acid, removal of from, process for, 1,271,591
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Banana plant, valeric acid treatment with of, 1,271,591
Banana pulp, dyestuff made with, 1,243,042
Banana skin, animal food made with, 1,188,678
—, dyestuff made with, 1,243,042
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Banana stalk, brick contg., 1,309,038
—, cellulose obtained from, 1,311,980
—, concrete, sandless, contg., 1,309,038
—, dyestuffs made with, 1,243,042
—, plaster contg., 1,309,038
—, resins obtained from, 1,311,980
—, roofing contg., 1,309,038
—, sugars obtained from, 1,311,980
—, tannic acid obtained from, 1,311,980
—, tile contg., 1,309,038
Banana starch, starch, pebble-like, made with, 1,129,440
Banana trees, fiber from, electrolyzed sea water for preparing, 1,357,580
Band, fabric, impregnating compound for, formula, graphite 50%, paraffin 45%, cup grease, 5%, 1,293,107
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—, —, potter's earth for, 1,491,539
—, —, process for, 1,491,539
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—, —, process for, 1,238,202
—, —, silicic acid for, 1,238,202
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Baobab wood, cellulose nitrate from, 1,302,455
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—, sodium hydroxide treatment for, 1,302,455
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—, alkali hydroxide made with, 1,160,847
—, aluminum article, filling for joints of, made with, 1,223,458
—, asbestos lumber made with, 1,299,798
—, ball made with, 1,298,410
—, barium aluminate made with, 1,240,571; 1,240,572
—, barium chloride made with, 1,133,392; 1,167,061; 1,495,893
—, barium hydroxide made with, 1,133,392
—, barium nitrate made with, 1,133,392
—, barium oxide made with, (1,112,721); Re-13,924; 1,133,392;
—, barium sulfide made with, (1,112,721); Re-13,924; 1,167,061; 1,494,674; 1,495,187; 1,511,929
—, billiard ball made with, 1,482,358
—, bottle, gasket for, made with, 1,322,823
—, brass article, filling for joints of, made with, 1,223,458
—, can, gasket for, made with, 1,322,823
—, casein composition made with, 1,437,487
—, celluloid substitute made with, 1,510,779
—, cement made with, 1,336,178
—, cement, aromatic, contg., 1,455,598
—, —, waterproof made with, 1,299,798
—, chloride made with, 1,160,847
—, cigarette holders made with, 1,482,358
—, container, metal, filling for joints of, made with, 1,223,458
—, copper article, filling for joints of, made with, 1,223,458
—, coumarone-rubber article made with, 1,248,226
—, door knobs made with, 1,482,358
—, enamel made with, 1,242,161
—, fiber sheet made with, 1,215,064
—, flooring made with, 1,336,178

Barite, formaldehyde-urea condensate made with, 1,482,358
—, gasket made with, 1,248,226; 1,322,823
—, glove, acid-resistant, made with, 1,500,097
—, golf ball made with, 1,298,410
—, handles made with, 1,482,358
—, insulation, electric, made with, 1,299,798; 1,336,178; 1,397,144; 1,413,557
—, —, heat, made with, 1,299,798; 1,336,178
—, iron, galvanized, article, filling for joints of, made with, 1,223,458
—, iron compound, removal of from, chlorine for, 1,185,254
—, —, —, copper(ous) chloride for, 1,185,254
—, —, —, copper(ic) salt for, 1,185,254
—, —, —, copper(ous) salt for, 1,185,254
—, —, —, copper(ic) sulfate for, 1,185,254
—, —, —, process for, 1,185,254
—, —, —, sulfur dioxide for, 1,185,254
—, —, —, sulfuric acid for, 1,185,254
—, ivory, imitation, made with, 1,482,358
—, ivory substitute made with, 1,514,509
—, jar, fruit, ring for, made with, 1,322,823
—, lake made with, 1,203,642
—, lithopone made with, 1,494,674
—, metal article, filling for joints of, made with, 1,223,458
—, molded article made with, 1,190,510; 1,299,798; 1,395,729; 1,397,144; 1,482,358; 1,514,509
—, ore contg., copper made with, 1,157,375
—, —, gold made with, 1,157,375
—, —, lead oxide made with, 1,157,375
—, —, silver made with, 1,157,375
—, —, zinc made with, 1,157,375
—, ornaments made with, 1,482,358
—, oxygen made with, 1,133,392
—, paint made with, 1,239,190; 1,242,161; 1,375,354; 1,375,355; 1,385,033; 1,385,034; 1,451,092; 1,489,418
—, phosphoric acid made with, 1,511,929
—, pigment made with, 1,166,808; 1,234,260; 1,240,405; 1,251,170; 1,489,418
—, plastic made with, 1,190,510; 1,299,798; 1,322,823; 1,397,144; 1,413,557; 1,456,369
—, printing matrix made with, 1,245,370
—, printing press roller made with, 1,345,200
—, radio-active solutions made using, 1,236,213
—, radium sulfate prevented from dissolving by use of, 1,236,213
—, record, phonograph, made with, 1,456,369; 1,482,358
—, reproduction composition made with, 1,386,995
—, resin, artificial, made with, 1,482,358
—, roller, inking, made with, 1,345,200
—, rubber article, made with, 1,248,226; 1,413,557
—, —, seamed, made with, 1,500,097
—, stone, artificial, made with, 1,336,178
—, sulfur made with, 1,167,061; 1,240,571
—, sulfur dioxide made with, (1,112,721); Re-13,924; 1,133,392
—, sulfur trioxide made with, (1,112,721); Re-13,924
—, tin article, filling for joints of, made with, 1,223,458
Barite, toilet articles made with, 1,482,358
—, treatment of, alkali bisulfate for, 1,364,804
—, —, alkali earth bisulfate for, 1,364,804
—, —, hydrochloric acid for, 1,364,804; 1,378,485
—, —, iron(ic) sulfate for, 1,364,804
—, —, nitric acid for, 1,364,804; 1,378,485
—, —, process for, 1,364,804; 1,378,485
—, —, sodium bisulfate for, 1,364,804
—, —, sodium bisulfite for, 1,364,804
—, —, sodium chloride for, 1,364,804
—, —, sodium pyrosulfate for, 1,364,804
—, —, sulfuric acid for, 1,364,804; 1,378,485
—, urea-formaldehyde condensate made with, 1,482,358
—, varnish made with, 1,242,161
—, waterproofing material contg., 1,149,519
—, wood, artificial, made with, 1,397,144
—, zinc ore contg., barium hydroxide made with, 1,238,242
—, —, zinc sulfide made with, 1,238,242
—, *see also Barium sulfate; Barytes*
Barium, alloy contg., 1,142,220; 1,158,672; 1,158,674; 1,169,392; 1,478,062; 1,492,282; 1,500,954
—, alloy, degasifying of using, 1,478,062
—, alloy contg., lead, calcium and, 1,360,339
—, alloy contg., manganese, lead and, 1,359,813
—, alloy contg., nitrogen oxides made with, 1,266,717
—, alloy of calcium, lead and, 1,359,813
—, alloy of lead, calcium and, 1,359,813
—, —, magnesium and, 1,359,813
—, aluminum de-oxidized by, 1,348,458
—, ammonia, catalyst for the mfr. of, made with, 1,491,588
—, amyl acetate made with, 1,233,333
—, amyl acetate, bromine, removal of from using, 1,233,333
—, —, chlorine, removal of from using, 1,233,333
—, —, purified using, 1,233,333
—, amyl alcohol, bromine, removal of from using, 1,233,333
—, —, chlorine, removal of from using, 1,233,333
—, —, purified using, 1,233,333
—, amyl formate, bromine, removal of from using, 1,233,333
—, —, chlorine, removal of from using, 1,233,333
—, —, purified using, 1,233,333
—, argon, purification of using, 1,478,036
—, audion, made with, 1,485,505
—, bearing metal contg., 1,360,272; 1,520,254
—, catalyst, ammonia made with, 1,128,843; 1,495,655
—, catalyst promoter, ammonia made with, 1,148,570; 1,152,930
—, color lake contg., 1,434,619
—, copper, iron alloy contg., made with, 1,130,678
—, copper alloy contg., 1,169,392
—, copper de-oxidized by, 1,348,457
—, cyanogen compound made with, 1,321,459
—, dye lake contg., 1,383,710
—, electrode alloy contg., 1,441,567; 1,441,568
—, gas, mon-atomic, purification of using, 1,478,036
—, heater, chemical, made with, 1,506,322; 1,506,323

Barium, hydrogen made with, 1,506,323
—, iron, carbon free, made with, 1,130,678
—, —, manganese free, made with, 1,130,678
—, —, phosphorus free, made with, 1,130,678
—, —, rust-proofing of with, 1,254,263; 1,254,264
—, —, silicon free, made with, 1,130,678
—, iron alloy, copper in, made with, 1,130,678
—, lamp, electric made with, 1,269,520
—, —, —, incandescent made with, 1,485,505
—, —, X-ray, made with, 1,485,505
—, lead alloy contg., 1,158,672; 1,158,674; 1,360,272; 1,360,348; 1,500,954; 1,520,254
—, lead alloy contg., mfr. of, 1,447,143
—, —, —, barium chloride for, 1,360,339
—, —, —, calcium chloride for, 1,360,339
—, —, —, sodium chloride for, 1,360,339
—, lead hardened with, 1,360,348
—, light transforming composition made with, 1,196,144
—, mfr. of, apparatus for, 1,521,002
—, —, barium azoimide for, 1,269,520
—, —, barium chloride for, 1,521,002
—, —, electrolytic apparatus for, 1,521,002
—, —, electrolytic cell for, 1,396,919
—, —, hydrazoic acid, barium salt of, 1,269,520
—, —, lead anode for, 1,142,220
—, —, lead-barium cathode for, 1,142,220
—, —, potassium cyanamide for, 1,142,220
—, —, potassium cyanide for, 1,142,220
—, —, process for, 1,142,220; 1,269,520; 1,521,002
—, —, sodium cyanamide for, 1,142,220
—, —, sodium cyanide for 1,142,220
—, —, tin anode for, 1,142,220
—, metal, degasifying of using, 1,478,062
—, metals separated with, 1,428,041
—, mold contg., 1,454,064
—, mold-protecting coating contg., 1,454,068
—, noble gases purified using, 1,485,505
—, photo-electric cell made with, 1,376,604; 1,376,605
—, nitrogen fixation with compounds of, 1,352,175
—, psilomelane used for, 1,291,867
—, rectifier, electric, made with, 1,485,505
—, resistance element, light sensitive, made with, 1,504,175
—, rubber, vulcanization of using, 1,159,327
—, shellac derivative contg., 1,309,967
—, silicon alloy contg., gold made with, 1,492,282
—, —, silver made with, 1,492,282
—, sodium cyanamide made with, 1,160,811
—, sodium cyanide made with, 1,160,811
—, steel, rust-proofing of with, 1,254,263; 1,254,264
—, sulfur removal from oils by ammonia contg., 1,423,710; 1,423,711; 1,423,712
—, sulfur chloride S_2Cl_2, preserving of using, 1,159,327
—, thorium alloy contg., electrodeposition of, apparatus for, 1,487,174
—, thorium separated from, 1,366,128
—, tire filler made with, 1,369,626
—, water gas made with, 1,506,323
—, *see also Alkali earth; Alkali earth metals; Metals, alkali earth*
Barium abietate, see Barium resinate
Barium acetate, acetone from, 1,361,131
—, ammonia producing catalyst made with, 1,473,543
—, barium carbonate from, 1,361,131
—, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, case hardening using, 1,492,192
—, case hardening compound made with, 1,361,131
—, catalyst, acetone made with, 1,315,525
—, catalyst made with, 1,473,543
—, charcoal, impregnated, made with, 1,361,131
—, chlorethyl acetate made with, 1,259,758
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, corn cobs impregnated with and charred, 1,361,131
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, ethylene glycol diacetate made with, 1,259,758
—, ethylene glycol monoacetate made with, 1,259,758
—, finish remover made with, 1,147,852; 1,167,641
—, glycol acetate made with, 1,259,758
—, nickel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, olefin glycol acetates made with, 1,259,758
—, propylene glycol acetates made with, 1,259,758
—, steel etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, wood chips impregnated with and charred, 1,361,131
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Barium acetyl-salicylate, mfr. of, acetone for, 1,217,862
—, —, acetyl-salicylic acid for, 1,217,862
—, —, alcohol for, 1,217,862
—, —, alkali bicarbonate for, 1,217,862
—, —, alkali carbonate for, 1,217,862
—, —, alkali hydroxide for, 1,217,862
—, —, ammonium hydroxide for, 1,217,862
—, —, barium bicarbonate for, 1,217,862
—, —, barium borate for, 1,217,862
—, —, barium chloride for, 1,217,862
—, —, barium hydroxide for, 1,217,862
—, —, barium nitrate for, 1,217,862
—, —, barium nitrite for, 1,217,862
—, —, barium oxide for, 1,217,862
—, —, barium phosphate for, 1,217,862
—, —, barium silicate for, 1,217,862
—, —, barium sulfate for, 1,217,862
—, —, barium sulfite for, 1,217,862
—, —, benzene for, 1,217,862
—, —, ether for, 1,217,862
—, —, hydrocarbon for, 1,217,862
—, —, ligroin for, 1,217,862
—, —, process for, 1,217,862
—, —, water for, 1,217,862
Barium alginate, cattle feed made with, 1,515,968
—, liquid, purification of using, 1,515,968
Barium alloy, heater, chemical, made with, 1,506,322

Barium alloy contg., lead, manganese and, 1,359,813
Barium aluminate, aluminum oxide made with, 1,191,106; 1,240,571
—, ammonia made with, 1,206,155
—, ammonia, catalyst for the mfr. of, made with, 1,206,155
—, barium chloride made with, 1,191,106
—, cyanides made with, 1,206,155
—, fabric stiffening material contg., 1,421,700
—, formates made with, 1,206,155
—, magnesium aluminate from, 1,460,699
—, mfr. of, aluminum oxide for, 1,240,571; 1,240,572
—, —, barite for, 1,240,571; 1,240,572
—, —, barium hydroxide for, 1,191,106
—, —, barium oxide for, 1,191,106
—, —, barium sulfate for, 1,240,571; 1,240,572
—, —, calcium oxide for, 1,240,572
—, —, carbon for, 1,240,571; 1,240,572
—, —, generator gas for, 1,240,571; 1,240,572
—, —, process for 1,191,106; 1,240,571; 1,240,572
—, —, steam for, 1,240,571; 1,240,572
—, nitrogen fixation process using, 1,206,155
—, paint pigment contg., 1,460,699
—, zinc aluminate made with, 1,460,699
Barium aluminum fluoride, see Aluminum barium fluoride
Barium antimony sulfide, see Antimony barium sulfide
Barium arsenate, insecticide contg., 1,417,232
—, mfr. of arsenic ore for, 1,188,740
—, —, barium hydroxide for, 1,188,740
—, —, lead ore for, 1,188,740
—, —, metal arsenide for, 1,188,740
—, —, process for, 1,141,920; 1,169,114; 1,184,693; 1,184,694; 1,188,740
—, —, sodium arsenate for, 1,188,740
—, —, sodium hydroxide for, 1,188,740
—, —, silver ore for, 1,188,740
Barium azoimide, barium made with, 1,269,520
—, barium oxide made with, 1,269,520
—, lamp, electric, made with, 1,269,520
Barium benzenesulfonate, mfr. of, barium sulfide for, 1,301,909
—, —, zinc benzenesulfonate for, 1,301,909
—, phenol made with, 1,301,909
—, sodium benzenesulfonate made with, 1,301,909
Barium beryllium fluoride, beryllium from, 1,427,919
Barium bicarbonate, barium acetyl-salicylate made with, 1,217,862
—, fire extinguisher contg., 1,428,207
Barium bichromate, formation of, 1,336,709
—, iron, rust-proofing of using, 1,287,605
—, match composition contg., 1,290,146
—, rust-proofing compound contg., 1,291,352
Barium borate, barium acetyl-salicylate made with, 1,217,862
—, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, cement, waterproofing of using, 1,519,285
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Barium borate, glass composition contg., 1,415,980
—, mortar, waterproofing of using, 1,519,285
—, nickel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, steel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, zinc etching of electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Barium bromate, magnesium bromate made with, 1,343,918
—, magnesium sulfate, action of on, 1,343,918
—, sodium bromate from, 1,343,918
—, sodium carbonate, action of on, 1,343,918
—, solubility of, 1,343,918
Barium bromide, anti-static photographic film contg., 1,431,900; 1,434,453
—, barium bromate from, 1,343,918
—, catalyst, 1,198,943; 1,198,944
—, film, photographic, made with, 1,431,900; 1,434,453
—, formation from hydrobromic acid, 1,343,918
—, kiln lining made with, 1,156,018
—, olefin acid extracts brominated with, 1,440,976
—, powder, black, made with, 1,166,731
—, refractory made with, 1,156,018
Barium butyl xanthate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Barium calcium carbide, nitrogen fixation process using, 1,241,020
Barium carbide, alkali cyanide made with, 1,472,402
—, ammonia made with, 1,123,763; 1,207,567; 1,483,414; 1,517,870
—, ammonia, catalyst for the mfr. of, made with, 1,352,178
—, ammonia made with gases purified with compound made with, 1,483,414
—, ammonia synthesis catalyst contg., 1,352,178
—, ammonium nitrate made with, 1,517,870
—, benzene made with, 1,269,439
—, catalyst, ammonia made with, 1,128,843
—, electrode, arc lamp, made with, 1,240,628
—, hydrocarbon made with, 1,269,439
—, hydrocarbon cracked with, 1,269,439
—, mfr. of, apparatus for, 1,224,788; 1,327,738
—, —, asphalt for, 1,224,788; 1,327,738
—, —, barium oxide for, 1,327,738
—, —, coal, bituminous for, 1,224,788; 1,327,738
—, —, coal, cannel, for, 1,227,788; 1,327,738
—, —, —, lignite, for, 1,327,738
—, —, coal tar for, 1,224,788; 1,327,738
—, —, coke for, 1,327,738
—, —, hydrocarbon for, 1,327,738
—, —, lignite for, 1,224,788; 1,403,633
—, —, oil shale for, 1,224,788
—, —, process for, 1,224,788; 1,327,738
—, —, shale, bituminous, for, 1,224,788
—, nitric acid made with, 1,517,870
—, nitrogen, fixation of using, 1,175,007
—, nitrogen, fixation process using, 1,241,020
—, sodium cyanamide made with, 1,160,811
—, sodium cyanide made with, 1,160,811; 1,472,403
—, toluene made with, 1,269,439

Barium carbonate, *b*-acetylethyl-diethylamine made with, 1,126,549
—, alkali cyanide made with, 1,501,840
—, aluminum fluoride made with, 1,518,872
—, ammonia made with, 1,209,258; 1,237,485; 1,483,413; 1,501,840
—, ammonia, catalyst for the mfr. of, made with, 1,483,412
—, ammonia carbonate made with, 1,209,258
—, ammonia made with gases purified using compound made with, 1,483,413
—, ammonia producing catalyst made with, 1,473,543
—, antimony made with, 1,144,402; 1,146,373
—, arc-welding composition made with, 1,467,825
—, arsenic made with, 1,144,402; 1,146,373
—, audion, electron emitting cathode for, made with, 1,419,530
—, barium alloy made with, 1,359,813
—, barium bromide made with, 1,343,918
—, barium carbonate made with, 1,318,258
—, barium chloride made with, 1,209,258; 1,428,646; 1,460,180; 1,495,893
—, barium cyanamide made with, 1,318,258
—, barium cyanide made with, 1,237,485; 1,295,049; 1,314,231; 1,318,258; 1,352,175; 1,355,642; 1,409,124; 1,501,840
—, barium dioxide made with, 1,243,190
—, barium fluoride made with, 1,194,344
—, barium fluosilicate made with, 1,518,872
—, barium hydroxide made with, 1,191,106; 1,247,510; 1,250,642; 1,460,180; 1,490,769
—, barium manganate made with, 1,318,891
—, barium oxide made with, 1,243,190; 1,250,642; 1,305,618; 1,318,258; 1,326,332
—, barium permanganate made with, 1,318,891
—, barium silicate, $BaSiO_3$ made with, 1,247,510
—, —, Ba_2SiO_4, made with, 1,247,510; 1,490,769
—, —, Ba_3SiO_5, made with, 1,490,769
—, —, (dibasic), made with, 1,463,037
—, —, (mono-basic) made with, 1,,463,037
—, barium silicate (tri-basic) made with, 1,463,073
—, barium sulfate made with, 1,310,384
—, barium sulfide conversion into by carbon dioxide, 1,346,287
—, basic, effect of on barium oxide mfr., 1,305,618
—, binder with cellulose sulfite liquors and, 1,290,118
—, bismuth made with, 1,144,402; 1,146,373
—, brick made with, 1,245,285
—, cadmium made with, 1,144,402; 1,146,373
—, candle made with, 1,248,402
—, carbon, decolorizing, made using, 1,250,228
—, carbon for carburizing metals treated with, 1,358,281
—, carbon dioxide made with, 1,209,258
—, carbon energized with, 1,374,642
—, carbon monoxide made with, 1,326,332
—, case-hardening using, 1,241,909; 1,248,604; 1,480,418
—, case-hardening composition contg., 1,209,336; 1,269,957; 1,279,160; 1,312,339; 1,333,768; 1,361,131; 1,374,642; 1,454,612
—, case hardening process using, 1,247,863; 1,480,230
Barium carbonate, catalyst made with, 1,473,543
—, catalyst in coal briquettes mfr., 1,430,767
—, catalyst for hydrogenation of hydrocarbon made with, 1,152,765
—, catalyst for hydrogenation of lamp oil made with, 1,152,765
—, catalyst for hydrogenation of petroleum made with, 1,152,765
—, catalyst for hydrogenation of resin oil made with, 1,152,765
—, catalyst for hydrogenation of shale oil made with, 1,152,765
—, cellulose sulfite liquor treated with, 1,284,739; 1,284,740
—, cement contg., 1,296,468; 1,456,667
—, cement, hydraulic, made with, 1,186,522; Re-14,773; 1,224,454
—, —, magnesium, made with, 1,212,575
—, —, Portland, made with, 1,194,344
—, ceramic ware made with, 1,245,285
—, charcoal contg., 1,361,131
—, chlorine solution made with, 1,298,553; 1,298,554
—, coal briquettes contg., 1,430,767
—, coal distilled in presence of, 1,343,100
—, cobalt made with, 1,146,373
—, cobalt precipitated by, 1,365,358
—, cobalt sulfate solutions for electrolysis kept neutral by, 1,344,869
—, colloidal solutions prepared with, 1,460,012
—, copper production of using, 1,144,402; 1,146,373; 1,163,286; 1,207,243
—, copper(ous) chloride made with, 1,207,243
—, corn oil made with, 1,161,481
—, cyanides made with, 1,364,838
—, cyanides made in presence of, 1,386,941
—, cymene disulfonic acid made with, 1,316,823
—, cymene-2-sulfonic acid made with, 1,316,823
—, drier, flat, made with, 1,315,137
—, dyestuff made with, 1,471,150
—, electrode, arc lamp, made with, 1,240,628
—, ethyl alcohol made with, 1,284,739; 1,284,740
—, ethylene glycol made with, 1,259,757; 1,259,758
—, fat made with, 1,219,485; 1,219,486
—, fatty acids made with, 1,219,485; 1,219,486; 1,248,402
—, fireproofing using, 1,346,287
—, fireproofing wood by, 1,346,287
—, formation of, 1,343,918; 1,460,180
—, —, barium carbonate for, 1,318,258
—, —, carbon for, 1,318,258
—, —, nitrogen for, 1,318,258
—, glass, made with, 1,192,048; 1,403,752
—, glass, translucent, made with, 1,192,048
—, glass composition contg., 1,415,980
—, glass ingredient, 1,327,569
—, glaze made with, 1,245,285
—, glycerol made with, 1,219,485; 1,219,486; 1,248,402
—, glycol made with, 1,259,757; 1,259,758
—, gold, production of using, 1,144,402; 1,146,373; 1,163,286
—, hydrobromic acid for dissolving, 1,343,918
—, hydrocarbon, hydrogenation of, catalyst for, made with, 1,152,765

Barium carbonate, hydrochloric acid neutralized by, 1,298,553; 1,298,554
—, hydrogenation catalyst made using, 1,152,765
—, hypochlorous acid, effect of on, 1,298,553; 1,298,554
—, incendiary composition contg., 1,308,463
—, ink, lithographic, made with, 1,131,578
—, insecticide made with, 1,276,509; Re-14,568
—, insulating composition contg., 1,456,667
—, insulation, electric, made with, 1,131,578
—, —, heat, made with, 1,456,667
—, iron, production of using, 1,144,402; 1,146,373
—, iron(ic) arsenate made with, 1,146,373
—, iron(ic) arsenite made with, 1,146,373
—, iron(ic) bromide, action of on, 1,343,918
—, iron compounds, zinc sulfate, removal from of, using, 1,494,674
—, iron(ic) oxide made with, 1,146,373; 1,251,564
—, iron sulfate, basic, made with, 1,251,564
—, iron(ic) sulfate, basic made with, 1,186,611
—, lamp oil, hydrogenation of, catalyst for made with, 1,152,765
—, lead, production of using, 1,144,402; 1,146,373
—, lead compound removed from zinc solutions by, 1,380,514; 1,380,515
—, lithophone made with, 1,494,674
—, manganese made with, 1,146,373
—, mfr. of, ammonia-soda process liquors for, 1,444,623
—, —, ammonium bicarbonate for, 1,378,595
—, —, ammonium carbonate for, 1,241,919; 1,241,920
—, —, barium chloride for, 1,191,106
—, —, barium cyanate for, 1,241,919; 1,241,920
—, —, barium dioxide for, 1,235,664
—, —, barium hydroxide for, 1,247,510
—, —, barium saccharate for, 1,247,510
—, —, barium silicate (di-basic) for, 1,463,037
—, —, barium silicate (mono-basic) for, 1,463,037
—, —, barium silicate (tri-basic) for, 1,463,037
—, —, barium sulfate for, 1,191,106; 1,247,510; 1,444,623
—, —, barium sulfhydrate for, 1,247,510
—, —, barium sulfide for, 1,247,510; 1,284,739; 1,284,740; 1,444,623
—, —, carbon for, 1,247,510
—, —, carbon dioxide for, 1,191,106; 1,235,664; 1,247,510; 1,284,739; 1,284,740
—, —, carnotite ore for, 1,126,182
—, —, carnotite, yellow, for, 1,126,182
—, —, hydrochloric acid for, 1,126,182
—, —, phosphoric acid for, 1,235,664
—, —, potassium carbonate for, 1,247,510
—, —, process for, 1,126,182; 1,191,106; 1,235,664; 1,241,919; 1,241,920; 1,247,510
—, —, sodium carbonate for, 1,126,182; 1,247,510
—, —, sodium hydroxide for, 1,126,182
—, —, sulfuric acid for, 1,126,182; 1,235,664
—, —, sulfurous acid for, 1,126,182
—, match made with, 1,360,282
—, match head composition contg., 1,350,283
—, mercury made with, 1,146,373
—, metal made with, 1,146,373
—, metaldehyde made with, 1,432,387
—, mine water treated with, 1,251,564
—, nickel made with, 1,146,373
Barium carbonate, nitrogen, fixation of using, 1,175,007; 1,441,693; 1,441,695; 1,501,760
—, nitrogen fixation with coal and, 1,409,124
—, oat oil made with, 1,161,481
—, oil made with, 1,219,485; 1,219,486
—, oil, vegetable, made with, 1,161,481
—, olefin glycol made with, 1,259,757; 1,259,758
—, paint made with, 1,131,578
—, papier mache, coating of using, 1,164,710
—, pea oil made with, 1,161,481
—, petroleum, hydrogenation of, catalyst for made with, 1,152,765
—, phenol aldehyde condensate made with, 1,197,171
—, phosphorescent compound made with, 1,244,058
—, pigment made with, 1,169,253; 1,183,201; 1,411,839
—, pigment contg., titanium oxide and, 1,343,468
—, plant sprays contg., 1,460,012
—, plastic, coating of using, 1,164,710
—, potassium carbonate made with, 1,194,344
—, potassium chloride made with, 1,186,522; Re-14,773; 1,194,344; 1,224,454
—, potassium compounds made with, 1,194,344; 1,224,454
—, propylene glycol made with, 1,259,757; 1,259,758
—, pulse oil made with, 1,161,481
—, pyrotechnic composition ingredient, 1,423,264
—, quebracho tanning compound made with, 1,241,950
—, rat poison made with, 1,220,593
—, record disk made with, 1,315,137
—, resin oil, hydrogenation of, catalyst for made with, 1,152,765
—, rubber, hard, substitute made with, 1,315,137
—, rubber, spongy, made with, 1,156,184
—, —, vulcanization of, using, 1,203,241
—, shale distilled in presence of, 1,343,100
—, shale oil, hydrogenation of, catalyst for, made with, 1,152,765
—, shellac, substitute made with, 1,315,137
—, shingle, fireproofing of, using, 1,346,287
—, silicon made with, 1,518,872
—, silicon alloy made with, 1,518,872
—, silver, production of, using, 1,144,402; 1,146,373; 1,163,286
—, soap made with, 1,219,485; 1,248,402
—, sodium cyanamide made with, 1,318,258
—, sodium cyanide made with, 1,318,258; 1,352,175
—, sodium ferrocyanide made with, 1,318,258
—, sodium hydroxide made with, 1,249,314
—, soya bean oil made with, 1,161,481
—, stearic acid made with, 1,248,402
—, steel carburized with, 1,310,918
—, stone, artificial, contg., 1,456,667
—, —, —, coating of using, 1,164,710
—, sulfonate oleic acid and naphthalene precipitated by, 1,416,284
—, sulfur dioxide "fixed" by, 1,397,094
—, sulfuric acid in metaldehyde removed by, 1,432,387

Barium carbonate, tanning compound made with, 1,241,950; 1,414,045; 1,421,722
—, thermionically active filaments coated with, 1,419,530
—, tile made with, 1,245,285
—, tin made with, 1,146,373
—, titanium oxide pigment prepared with, 1,412,027
—, varnish made with, 1,131,578
—, varnish substitute made with, 1,315,137
—, water, purification of, using, 1,199,098; 1,199,099
—, —, softening of using, 1,510,469
—, wood, fireproofing of, using, 1,346,287
—, zinc made using, 1,144,402; 1,146,373; 1,163,286
—, zinc sulfate made with, 1,494,674
—, zinc, sulfate, iron compounds, removal of from, using, 1,494,674
—, *see also Witherite*
Barium castor oil soap, concrete coating contg., 1,400,041
Barium chlorate, barium chloride, separation of from, 1,391,858
—, barium manganate made with, 1,453,562
—, detonator made with, 1,206,456
—, explosive contg., 1,327,985; 1,335,790; 1,350,465
—, heater, chemical, made with, 1,506,323
—, hydrogen made with, 1,506,323
—, lamp, electric, tungsten filament, made with, 1,240,700
—, —, incandescent, made with, 1,166,464
—, mfr. of, 1,391,858
—, match made with, 1,201,191; 1,206,828; 1,360,282; 1,360,283; Re-15,039
—, match composition contg., 1,290,146
—, match head composition contg., 1,360,282; 1,360,283; Re-15,039
—, matches impregnated with, 1,290,146; 1,434,893
—, primer made with, 1,174,669
—, priming charge contg., 1,308,393
—, pyrotechnic mixture ingredient, 1,423,264
—, water gas made with, 1,506,323
Barium chloride, acetaldehyde made with, 1,511,754
—, adhesive of dextrin and, 1,337,382
—, alcohol made with, 1,511,754
—, alloy, cerium in, made with, 1,290,010; 1,290,011
—, —, rare earth metal in, made with, 1,290,010; 1,290,011
—, aluminum fluoride made with, 1,518,872
—, 2-amino-anthraquinone made with, 1,338,364
—, 2-aminoanthraquinone, effect of on yield of, 1,340,603
—, —, mfr. in presence of, 1,338,363; 1,338,364
—, audion filament contg., 1,453,267
—, barium made with, 1,521,002
—, barium, lead alloy contg., made with, 1,360,339
—, barium acetyl-salicylate made with, 1,217,862
—, barium alloys prepared with, 1,359,813
—, barium carbonate made with, 1,191,106; 1,378,595
Barium chloride, barium chlorate, separation of from, 1,391,858
—, barium fluosilicate made with, 1,518,872
—, barium hydroxide made with, 1,396,315; 1,460,180
—, barium nitrate made with, 1,273,824
—, barium stearate made with, 1,292,404
—, barium sulfate made with, 1,146,491; 1,165,693; 1,303,426; 1,360,312
—, barium sulfide converted to, 1,378,593
—, barium thiosulfate made with, 1,406,197
—, barium trinitroresorcinate made with, 1,308,393
—, barium vanadate made with, 1,165,693
—, battery, dry, made with, 1,490,450; 1,506,189
—, bearing metal made with, 1,520,254
—, bleaching process using, 1,155,101; 1,155,102
—, boiler feed water treatment compound contg., 1,260,987
—, brass made with, 1,423,922
—, building material made with, 1,256,324
—, cadmium made with, 1,247,413
—, cadmium chloride made with, 1,247,413
—, calcimine made with, 1,244,033
—, calcium, lead alloy contg., made with, 1,360,339
—, calcium carbide, blocks of, made with, 1,486,618
—, calcium chloride made with, 1,146,491
—, carbon, decolorization, made using, 1,250,228
—, case hardening with, 1,279,457; 1,279,458; 1,520,063
—, case hardening composition contg., 1,286,061
—, casein precipitated by, 1,376,652
—, catalyst, 1,198,943; 1,198,944
—, catalyst, allyl chloride made with, 1,477,047
—, —, cement, paint for, made with, 1,220,821
—, —, concrete, paint for, made with, 1,220,821
—, —, hydrocarbon, unsaturated, made with, 1,220,821
—, —, hydrogenation, made with, 1,172,062; 1,222,660
—, —, isoprene made with, 1,202,282
—, —, linseed oil substitute made with, 1,220,821
—, —, nickel as, made with, 1,172,062
—, catalyst promoter, 1,271,013
—, cellulose sulfite liquor treated with, 1,284,739; 1,284,740
—, cement contg., 1,456,667
—, cement, paint for, made with, 1,197,599
—, —, Portland, made with, 1,239,912; 1,250,291
—, —, —, waterproof, made with, 1,285,636
—, —, waterproof, made with, 1,285,636
—, —, white, made with, 1,239,912
—, cerium made with, 1,273,223
—, chlorine for, 1,167,061
—, cleaner made with, 1,327,631
—, cobalt made with, 1,247,413
—, cobalt chloride made with, 1,247,413
—, color lake made with, 1,358,007
—, color lake precipitated by, 1,434,619
—, compound, $C_{15}H_{28}$, made with, 1,220,821
—, concrete, paint for, made with, 1,197,599
—, —, waterproof, made with, 1,285,636
—, copper bleached using, 1,155,102

Barium chloride, copper made with, 1,247,413
—, copper chloride made with, 1,247,413
—, copper vanadate made with, 1,165,693
—, cyclohexene made with, 1,221,382
—, cyclopentene made with, 1,221,382
—, dihydro-benzene made with, 1,221,382
—, dissolving, anhydrous ammonia for, 1,329,652
—, dye lakes made with, 1,378,418
—, dyestuff recovered using, 1,303,426
—, electrolyte contg., 1,291,310
—, ethyl alcohol made with, 1,284,739; 1,284,740
—, fish oil, hydrogenation of, catalyst for, made with, 1,222,660
—, flotation process using, 1,203,372; 1,203,374
—, formation of, 1,391,858; 1,434,485; 1,434,486; 1,460,180
—, galena, flotation of, using, 1,203,372; 1,203,374
—, —, sphalerite, separation from of, using, 1,203,372; 1,203,374
—, —, zinc sulfide ore, separation from of, using, 1,203,372; 1,203,374
—, glue, vegetable, made with, 1,357,310
—, glycerol made with, 1,511,754
—, gypsum, waterproofing of with, 1,256,324
—, hydrogen peroxide contg., 1,364,558
—, hydrogenation, catalyst for, made with, 1,172,062; 1,222,660
—, ink made with, 1,286,916; 1,369,252
—, ink, printers, made with, 1,283,455
—, intestines tanned with, 1,444,546
—, insulation, electric, made with, 1,175,424
—, —, heat, made with, 1,456,667
—, insulating composition contg., 1,456,667
—, iron vanadate made with, 1,165,693
—, isoprene made with, 1,298,929; 1,509,603
—, kiln lining made with, 1,156,018
—, lake made with, 1,126,591; 1,126,664; 1,232,551; 1,232,552; 1,358,007; 1,369,252; 1,434,619; 1,445,331
—, lamp, electric, tungsten filament, made with, 1,240,700
—, —, incandescent, made with, 1,166,464
—, lead alloy, made with, 1,520,254
—, —, barium in, made with, 1,360,339
—, —, calcium in, made with, 1,360,339
—, —, sodium in, made with, 1,360,339
—, lead-barium alloy from, 1,447,143
—, lead-calcium-barium-alloy prepared with, 1,359,813; 1,360,339
—, lead sulfide ore, flotation of, using, 1,203,372; 1,203,374
—, —, sphalerite, separation from of, using, 1,203,372; 1,203,374
—, —, zinc sulfide ore, separation from of, 1,203,372; 1,203,374
—, lead vanadate made with, 1,165,693
—, leather made with, 1,444,546
—, linen bleached using, 1,155,102
—, linolic acid, hydrogenation of, catalyst for, made with, 1,222,660
—, linseed oil substitute made with, 1,197,599
—, magnesium made with, 1,258,261
—, magnesium alloy cast using, 1,476,192
—, magnesium chloride made with, 1,262,939
—, mfr. of, acetaldehyde for, 1,495,538
Barium chloride, mfr. of, acid for, 1,129,029
—, —, alunite for, 1,191,106
—, —, ammonium chloride for, 1,209,258
—, —, apparatus for, 1,133,392; 1,209,258
—, —, barite for, 1,133,392; 1,167,061; 1,495,893
—, —, barium aluminate for, 1,191,106
—, —, barium carbonate for, 1,209,258; 1,495,893
—, —, barium compound for, 1,279,090
—, —, barium hydroxide for, 1,191,106
—, —, barium hyposulfite for, 1,495,893
—, —, barium oxide for, 1,133,392; 1,191,106;
—, —, barium silicate for, 1,495,893
—, —, barium sulfate for, 1,133,392; 1,146,491; 1,167,061; 1,279,090; 1,495,893
—, —, barium sulfide for, 1,167,061; 1,378,593; 1,378,594; 1,495,893
—, —, barium sulfite for, 1,495,893
—, —, benzaldehyde for, 1,495,538
—, —, calcium chloride for, 1,129,029; 1,146,491; 1,495,893
—, —, carbon for, 1,167,061
—, —, carbon monoxide for, 1,495,538
—, —, carbonyl chloride for, 1,360,312
—, —, carnotite for, 1,495,538
—, —, carnotite, yellow, for, 1,126,182
—, —, carnotite ore for, 1,126,182; 1,129,029
—, —, chloride for 1,129,029
—, —, coal for, 1,495,893
—, —, coke for, 1,129,029; 1,495,893
—, —, dextrose for, 1,495,538
—, —, ethylene for, 1,495,538
—, —, formaldehyde for, 1,495,538
—, —, hydrochloric acid for, 1,126,182; 1,129,029; 1,133,392; 1,191,106; 1,495,538
—, —, hydrogen for, 1,495,538
—, —, methyl alcohol for, 1,495,538
—, —, oxalic acid for, 1,495,538
—, —, process for, 1,126,182; 1,129,029; 1,133,392; 1,146,491; 1,167,061; 1,191,106; 1,209,258; 1,279,090; 1,360,312; 1,428,646; 1,495,538; 1,495,893
—, —, radium ore for, 1,495,538
—, —, silicon dioxide for, 1,279,090
—, —, sodium carbonate for, 1,126,182; 1,129,029
—, —, sodium chloride for, 1,129,029; 1,279,090
—, —, sodium hydroxide for, 1,126,182
—, —, sugar, cane, for, 1,495,538
—, —, —, grape, for, 1,495,538
—, —, sulfuric acid for, 1,126,182; 1,129,029
—, —, sulfurous acid for, 1,126,182
—, —, uranium ore for, 1,495,538
—, —, vanadium ore for, 1,495,538
—, —, zinc chloride for, 1,167,061
—, metals molten under, 1,423,922
—, misch-metal made with, 1,273,223
—, nickel made with, 1,247,413
—, nickel, catalyst, made with, 1,172,062
—, nickel chloride made with, 1,247,413
—, nitrates made with, 1,485,706
—, nitrogen oxides made with, 1,485,706
—, oil, drying, made with, 1,197,599
—, oil wells grouted by cement contg., 1,452,463
—, olefin acid extracts chlorinated with, 1,440,976
—, oleic acid, hydrogenation of, catalyst for, made with, 1,222,660
—, orange II pigment made with, 1,259,708

Barium chloride, paint made with, 1,197,599; 1,286,916; 1,369,252
—, paper, coated, made with, 1,147,996
—, —, photographic, made with, 1,504,150
—, phenolphthalein alkali carbonate compound decomposed by, 1,357,482
—, pickling liquor, treatment of with, 1,287,939
—, pigment made with, 1,155,462; Re-14,289; 1,220,973; 1,236,655; 1,286,916; 1,504,673
—, platinum group metal production of using, 1,281,878
—, platinum production of using, 1,281,878
—, potassium chlorate made with, 1,247,619
—, potassium chloride made with, 1,239,912; 1,247,619; 1,250,291
—, potassium compound made with, 1,247,619; 1,250,291
—, potassium compounds recovered with, 1,435,593
—, potassium hydroxide made with, 1,247,619
—, radium made with, 1,165,693
—, radium chloride, separation from of, 1,129,029
—, radium sulfate made with, 1,165,693
—, refractory made with, 1,156,018
—, reproduction composition made with, 1,386,995
—, ricinoleic acid, hydrogenation of, catalyst for, made with, 1,222,660
—, rubber, synthetic, made with, 1,509,603
—, silicon, made with, 1,518,872
—, silicon alloy made with, 1,518,872
—, sodium, lead alloy contg., made with, 1,360,339
—, sodium chloride purified with, 1,475,563
—, sodium cyanamide made with, 1,160,811
—, sodium cyanide made with, 1,160,811
—, sodium uranyl carbonate made with, 1,165,693
—, sodium vanadate made with, 1,165,693
—, soya bean oil, hydrogenation of, catalyst for, made with, 1,222,660
—, sphalerite, galena, separation from of, using, 1,203,372; 1,203,374
—, —, lead sulfide ore, separation from of, using, 1,203,372; 1,203,374
—, starch paste contg., 1,357,310
—, steel, high-speed scrap recovery of using, 1,471,252
—, steel alloy, tungsten in, recovery of using, 1,471,252
—, steel heating bath contg., 1,454,214
—, stone, artificial, contg., 1,256,324; 1,456,667
—, sulfates converted into chlorides by, 1,370,646
—, sulfates removed with, 1,435,180
—, sulfuric acid in titanium hydroxide neutralized with, 1,361,866; 1,361,867
—, tanning compound made with, 1,421,722
—, textile bleached using, 1,155,102
—, thyroid product made with, 1,392,767
—, titanium dioxide made with, 1,189,229
—, titanium hydroxide made with, 1,504,673
—, titanium oxide made with, 1,343,441; 1,504,673
—, titanium oxide pigment made with, 1,504,673
Barium chloride, tungsten oxide (WO_3), made with, 1,244,082
—, uranium made with, 1,165,693
—, vanadium made with, 1,165,693
—, waterproofing contg., 1,256,324
—, wells sealed with, 1,421,706
—, "xylium" made with, 1,175,422; 1,175,423
—, "xylium," composition of and, 1,175,422; 1,175,423
—, "xylosca" made with, 1,175,422; 1,175,423
—, "xylozo" made with, 1,175,422; 1,175,423
—, zinc made with, 1,247,413
—, zinc chloride made with, 1,247,413
—, zinc sulfide ore, galena, separation from of, using, 1,203,372; 1,203,374
—, —, lead sulfide ore, separation from of, using, 1,203,372; 1,203,374
—, zinc sulfide pigment contg., 1,443,077
Barium chromate, abrasive, etching of using, 1,482,793
—, catalyst, ammonia, oxidation of, with, 1,322,291
—, —, dehydrogenation, made with, 1,271,013
—, —, hydrogenation, made with, 1,271,013
—, —, nitrogen oxides, mfr. of, made with, 1,322,291
—, catalyst promoter, 1,271,013
—, corundum, etching of using, 1,482,793
—, emery, etching of using, 1,482,793
—, garnet, etching of using, 1,482,793
—, insecticide made with, 1,496,436
—, iron, rustproofing of using, 1,287,605
—, lamp, incandescent, made with, 1,166,464
—, match made with, 1,201,191
—, match composition contg., 1,290,146
—, paint, luminous, made with, 1,237,368
—, quartz, etching of using, 1,482,793
—, rust-proofing compound contg., 1,291,352
—, sand, etching of using, 1,482,793
—, shoe polish made with, 1,231,997
—, silica, etching of using, 1,482,793
—, silicon carbide, etching of using, 1,482,793
Barium chrome, see Barium chromate
Barium compound, barium chloride made with, 1,279,090
—, blasting fuses contg., 1,424,487
—, celluloid substitute made with, 1,181,858
—, ceramic insulating material contg., 1,409,953
—, ceramic ware contg., 1,438,598
—, electrode, arc-lamp, made with, 1,156,696; 1,189,265
—, glass made with, 1,431,166; 1,510,521
—, glass, opaque, made with, 1,245,487
—, insulation, electric, made with, 1,438,598
—, light transforming composition made with, 1,196,144
—, nitrogen fixation with, 1,441,693
—, paint made with, 1,216,980; 1,216,981
—, pigment made with, 1,216,980; 1,216,981
—, pyrotechnic made with, 1,265,205
—, sodium chloride, removal from of, process for, 1,244,380
—, —, —, salt for, 1,244,380
—, —, —, sodium sulfate for, 1,244,380
—, sodium cyanide made with, 1,352,175;
—, sodium silicate made with, 1,279,090
—, sodium tungstate made with, 1,322,485

Barium compound, tungsten oxide (WO_3), made with, 1,244,082
—, water, removal from of, process for, 1,499,492
—, —, —, zeolite, artificial, for, 1,499,492
Barium cresolsulfonate, tanning material made with, 1,421,701
Barium cyanamide, alkali cyanide made with, 1,277,898; 1,277,900
—, ammonia made with, 1,159,989; 1,237,485
—, ammonia, catalyst for the mfr. of, made with, 1,352,178
—, catalyst, ammonia made with, 1,352,177
1,352,179; 1,473,543
—, —, ammonia synthesis, made with, 1,352,177; 1,352,178; 1,352,179
—, —, hydrocyanic acid made with, 1,352,176
—, formation of, 1,352,176
—, gases dried with, 1,454,591
—, mfr. of, aluminum nitride for, 1,506,269
—, —, ammonia for, 1,352,177; 1,352,179
—, —, barium carbonate for, 1,318,256
—, —, barium cyanide for, 1,352,177; 1,352,179
—, —, barium fluoride for, 1,506,269
—, —, barium hydroxide for, 1,506,269
—, —, carbon for, 1,318,258
—, —, iron carbide for, 1,506,269
—, —, nitrogen for, 1,318,258; 1,352,177; 1,352,179
—, —, process for, 1,352,177; 1,352,179; 1,473,543; 1,506,269
—, —, silicon nitride for, 1,506,269
—, preparation of, 1,352,177; 1,352,179
—, sodium cyanamide made with, 1,160,811; 1,318,258;
—, sodium cyanide made with, 1,160,811; 1,277,898; 1,277,900; 1,318,258
—, sodium ferrocyanide made with, 1,318,258
Barium cyanate, ammonium cyanate made with, 1,241,919; 1,241,920
—, barium carbonate made with, 1,241,919; 1,241,920
—, urea made with, 1,241,919; 1,241,920
Barium cyanide, alkali cyanide made with, 1,501,840
—, ammonia made with, 1,123,763; 1,159,989; 1,441,693; 1,453,210; 1,501,840
—, barium carbonate made with, 1,352,175
—, barium cyanamide made with, 1,352,176; 1,352,177; 1,352,179
—, formation of, 1,441,693
—, hydrocyanic acid, catalyst for the mfr. of, made with, 1,352,176
—, mfr. of, aluminum nitride for, 1,506,269
—, —, apparatus for, 1,156,108
—, —, barium carbonate for, 1,237,485; 1,295,049; 1,314,231; 1,318,258; 1,355,642; 1,501,840
—, —, barium fluoride for, 1,506,269
—, —, barium hydroxide for, 1,506,269
—, —, barium oxide for, 1,355,642
—, —, barium silicate (Ba_2SiO_4), for, 1,501,840
—, —, carbon for, 1,156,108; 1,237,485; 1,318,258; 1,355,642; 1,501,840
—, —, charcoal for, 1,156,108
—, —, coal for, 1,156,108
—, —, coal, anthracite, for, 1,156,108
—, —, coal tar for, 1,237,485
—, —, coke for, 1,156,108; 1,237,485
Barium cyanide, mfr. of, coke, bituminous coal, for, 1,237,485
—, —, —, petroleum, for, 1,237,485
—, —, —, Scotch anthracite, for, 1,237,485
—, —, —, shale oil, for, 1,237,485
—, —, —, tar, for, 1,237,485
—, —, —, Welsh anthracite, for, 1,237,485
—, —, dolomite for, 1,156,108
—, —, iron carbide for, 1,506,269
—, —, iron ore for, 1,156,108
—, —, iron oxide for, 1,156,108
—, —, lime for, 1,156,108
—, —, limestone for, 1,156,108
—, —, magnesia for, 1,156,108
—, —, nitrogen for, 1,156,108; 1,237,485; 1,318,258; 1,501,840
—, —, potassium silicate for, 1,156,108
—, —, process for, 1,156,108; 1,237,485; 1,466,627; 1,466,628; 1,501,840; 1,506,269
—, —, retort carbon for, 1,237,485
—, —, silicon nitride for, 1,506,269
—, preparation of, 1,352,175
—, sodium cyanamide made with, 1,160,811; 1,318,258
—, sodium cyanide made with, 1,160,811; 1,318,258; 1,352,175
—, sodium ferrocyanide made with, 1,318,258
—, synthesis of, 1,409,124
Barium cymene disulfonate, production of, process for, 1,316,823
Barium cymene-2-sulfonate, production of, process for, 1,316,823
Barium *a*-dinaphthylmethanesulfonate, tanning with, 1,414,045
Barium dioxide, audion filament contg., 1,453,267
—, barium carbonate made with, 1,235,664
—, barium manganate made with, 1,453,562
—, barium nitrate made with, 1,273,824
—, barium permanganate made with, 1,453,562
—, barium phosphate ($Ba(HPO_4)$), made with, 1,273,824
—, barium sulfate made with, 1,216,338; 1,235,664
—, binder made with, 1,233,415; 1,233,416
—, boric acid made with, 1,262,589
—, butylene chlorhydrin made with, 1,253,617
—, butylene glycol made with, 1,253,617; 1,308,796; 1,308,797
—, butylene oxide made with, 1,253,617
—, butylene oxidized by, 1,308,796; 1,308,797
—, calcium chloride made with, 1,153,502
—, caoutchouc, synthetic, made with, 1,146,253
—, catalyst in anthraquinone mfr., 1,466,683
—, cellulose sulfite liquor treated with, 1,155,256
—, chicle substitute made with, 1,283,728
—, chlorhydrin made with, 1,308,796; 1,308,797
—, cutting electrically with, as oxygen carrier, 1,451,392
—, dynamite cartridge made with, 1,502,646
—, electrode, arc lamp, made with, 1,240,628
—, electroplating process employing, 1,464,149
—, ethylene chlorhydrin made with, 1,253,617; 1,308,796; 1,308,797
—, ethylene glycol made with, 1,253,617

Barium dioxide, ethylene oxide made with, 1,253,617; 1,308,796; 1,308,797
—, ethylene oxidized by, 1,308,796; 1,308,797
—, explosive ingredient, 1,416,121; 1,416,122; 1,416,123
—, galvanizing process employing, 1,464,149
—, glass made with, 1,488,914
—, glycol made with, 1,308,796; 1,308,797
—, glycol esters made with, 1,308,796; 1,308,797
—, glycol ethers made with, 1,308,796; 1,308,797
—, heater, chemical, made with, 1,506,322; 1,506,323
—, hydrogen made with, 1,506,323
—, hydrogen dioxide made with, 1,139,774; 1,210,651; 1,216,338; 1,235,664; 1,271,611; 1,273,824; 1,364,558; 1,398,468; 1,412,755
—, hydrogen peroxide made with, 1,262,589
—, insulation, electric, made with, 1,233,415; 1,233,416
—, iron removed from zinc solution with, 1,425,436; 1,425,437
—, lightning arrester made with, 1,238,660
—, lithopone made with, 1,139,427; 1,140,354
—, mfr. of, apparatus for, 1,438,377
—, —, barium carbonate for, 1,243,190
—, —, barium hydroxide for, 1,438,377
—, —, barium oxide for, 1,273,824; 1,305,618
—, —, boric acid for, 1,169,703
—, —, carbon dust for, 1,243,190
—, —, carbon monoxide for, 1,243,190
—, —, electrolytic process for, 1,169,703
—, —, gelatin for, 1,169,703
—, —, lead anode for, 1,169,703
—, —, oxygen for, 1,169,703
—, —, phosphoric acid for, 1,169,703
—, —, platinum anode for, 1,169,703
—, —, process for, 1,169,703; 1,243,190; 1,438,377
—, —, silver, amalgamated, cathode, for, 1,169,703
—, —, starch for, 1,169,703
—, mesothorium chloride made with, 1,142,154
—, olefin chlorhydrin made with, 1,253,617
—, olefin glycol made with, 1,253,617; 1,308,796; 1,308,797
—, olefin oxide made with, 1,253,617
—, olefin oxidized by, 1,308,796; 1,308,797
—, oxygen made with, 1,153,502
—, paint made with, 1,216,980; 1,216,981
—, paint pigment made with, 1,413,565
—, paper made with, 1,502,646
—, pigment made with, 1,216,980; 1,216,981
—, primer made with, 1,174,669; 1,184,316; 1,308,394; 1,312,156; 1,416,121; 1,416,122; 1,416,123
—, primer for signal fuses contg., 1,430,590
—, propylene chlorhydrin made with, 1,253,617
—, propylene glycol made with, 1,253,617; 1,308,796; 1,308,797
—, propylene oxide made with, 1,253,617
—, propylene oxidized by, 1,308,796; 1,308,797
—, radium-barium chloride made with, 1,142,154
—, reducing electrically with, as oxygen carrier, 1,451,392
—, shot made with, 1,305,113; 1,305,114; 1,305,115
Barium dioxide, shot, luminous, made with, 1,305,113; 1,305,114; 1,305,115
—, sodium sulfate made with, 1,262,589
—, tennis racket string made with, 1,231,911
—, thermite igniter contg., 1,142,154
—, thorium compound made with, 1,142,154
—, water gas made with, 1,506,323
—, welding electrically with, as oxygen carrier, 1,451,392
—, zinc sulfate made with, 1,139,427; 1,140,354
Barium ethylphenyldithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Barium ethyl xanthate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
—, vulcanization accelerator, 1,440,961
Barium ethylxanthogenate, vulcanizing accelerator, 1,440,961
—, *see also Barium ethyl-xanthate*
Barium ferricyanide, ammonia, catalyst for the mfr. of, made with, 1,363,392; 1,363,393
—, catalyst, ammonia made with, 1,454,599
—, catalyst for ammonia synthesis made with, 1,363,392; 1,363,393; 1,454,599
Barium ferrocyanide, ammonia, catalyst for the mfr. of, made with, 1,363,392; 1,363,393; 1,439,291; 1,439,292
—, —, synthetic, made with as catalyst, 1,452,027
—, ammonia synthesis, catalyst for, made with, 1,363,392; 1,363,393; 1,439,291; 1,439,292; 1,454,599
—, catalyst, ammonia made with, 1,454,599
Barium fluoride, aluminum-silicon alloy purified with, 1,387,900
—, barium alloys prepared from, 1,359,813
—, barium cyanamide made with, 1,506,269
—, barium cyanide made with, 1,506,269
—, barium sulfate made with, 1,244,359
—, beryllium fluoride produced with, 1,427,919
—, catalyst, dehydrogenation, made with, 1,216,933
—, —, hydrogenation, made with, 1,216,933
—, cerium fluoride made with, 1,244,359
—, dehydrogenation, catalyst for, made with, 1,216,933
—, electrode, arc lamp, made with, 1,164,728; 1,189,265; 1,239,810; 1,244,359
—, hydrogenation, catalyst for, made with, 1,216,933
—, hydrogen dioxide, decomposition of by, 1,139,774
—, kiln lining made with, 1,156,018
—, lamp incandescent made with, 1,186,464
—, lanthanum fluoride made with, 1,244,359
—, magnesium, electrodeposition of, bath, contg., 1,310,449; 1,310,450
—, —, production of using, 1,310,449; 1,310,450
—, mfr. of, barium carbonate for, 1,194,344
—, —, barium sulfate for, 1,194,344
—, —, potassium fluoride for, 1,194,344
—, —, process for, 1,194,344
—, neodymium fluoride made with, 1,244,359
—, praseodymium fluoride made with, 1,244,359
—, rare earth fluoride made with, 1,244,359
—, refractory made with, 1,156,018
—, yttrium fluoride made with, 1,244,359

Barium fluosilicate, abrasive, etching of using, 1,482,793
—, aluminum fluoride made with, 1,518,872
—, corundum, etching of using, 1,482,793
—, emery, etching of using, 1,482,793
—, formation of, 1,426,890; 1,426,891
—, garnet, etching of using, 1,482,793
—, mfr. of barium carbonate for, 1,518,872
—, —, barium chloride for, 1,518,872
—, —, barium oxide for, 1,518,872
—, —, fluosilicic acid for, 1,518,872
—, —, phosphate rock for, 1,518,872
—, —, process for, 1,518,872
—, —, sulfuric acid for, 1,518,872
—, quartz, etching of using, 1,482,793
—, sand, etching of using, 1,482,793
—, silica, etching of using, 1,482,793
—, silicon made with, 1,518,872
—, silicon alloy made with, 1,518,872
—, silicon carbide, etching of using, 1,482,793
Barium formate, ammonia producing catalyst made with, 1,473,543
—, catalyst made with, 1,473,543
—, cattle feed made with, 1,515,968
—, liquid, purification of using, 1,515,968
Barium glycerophosphate, glycerophosphoric acid made with, 1,170,426
Barium glycocholate, ammonium silver glycocholate made with, 1,161,868
Barium halide, lamp, incandescent, made with, 1,166,464
—, refractory made with, 1,156,018
Barium hydrate, see Barium hydroxide
Barium hydrosulfide, calcium hydroxide, action of on, 1,343,034
—, germicide contg., 1,343,034
—, insecticide contg., 1,343,034
—, *see also Barium sulfide*
Barium hydroxide, *b*-acetylethyl-diethylamine made with, 1,126,549
—, adhesive made with, 1,192,783; 1,275,799
—, aluminum oxide made with, 1,191,106
—, amber substitute made with, 1,502,945
—, ammonia, catalyst for the mfr. of, made with, 1,483,412
—, ammonium hydroxide regenerated with, 1,349,750
—, ammonium silver glycocholate made with, 1,161,866
—, amyl acetate made with, 1,491,076
—, amyl formate made with, 1,491,076
—, antimony made using, 1,144,402; 1,146,373
—, antimony sulfide prepared with, 1,415,127
—, arsenic made with, 1,144,402; 1,146,373
—, asbestos, barium sulfate, impregnated, made with, 1,262,228
—, audion filaments coated with, 1,467,398
—, barium acetyl-salicylate made with, 1,217,862
—, barium aluminate made with, 1,191,106
—, barium arsenate made with, 1,188,740; 1,417,232
—, barium carbonate made with, 1,247,510
—, barium chlorate made with, 1,391,858
—, barium chloride made with, 1,191,106; 1,391,858; 1,495,893
—, barium cyanamide made with, 1,506,269
—, barium cyanide made with, 1,506,269
Barium hydroxide, barium dioxide made with, 1,438,377
—, barium manganate made with, 1,318,891; 1,453,562
—, barium manganite manganate made with, 1,236,693
—, barium permanganate made with, 1,318,891; 1,453,562
—, barium peroxide made with, 1,316,133
—, barium phosphate made with, 1,213,330
—, barium sulfate made with, 1,191,106; 1,247,510
—, battery, dry, depolarizer for, made with, 1,232,904; 1,236,693
—, —, primary, made with, 1,489,240
—, —, storage, separator for, made with, 1,228,368
—, battery electrolyte contg., 1,371,746
—, billiard ball made with, 1,482,358
—, bismuth made with, 1,144,402; 1,146,373
—, boiler corrosion prevented using, 1,235,815
—, boiler feed water treatment compound contg., 1,260,987
—, briquet made with, 1,246,805; 1,246,807; Re-14,653; 1,311,221; 1,311,222
—, butyl acetate made with, 1,491,076
—, cadmium made with, 1,144,402; 1,146,373
—, carbon dioxide absorption with magnesium compounds and, 1,290,244
—, case-hardening composition contg., 1,286,061
—, catalyst, hydrogenation, made with, 1,482,740
—, —, (for the mfr. of ammonia), made with, 1,483,412
—, —, nickel, made with, 1,482,740
—, catalyst in ester mfr., 1,433,308
—, catalyst promoter, ammonia made with, 1,148,570; 1,152,930
—, cellulose nitrate plastic substitute made with, 1,502,945
—, cellulose soda liquor and, colloidal solutions prepared with, 1,460,012
—, cellulose sulfite liquor and, colloidal solutions prepared with, 1,460,012
—, cellulose sulfite liquor treated with, 1,284,739; 1,284,740
—, cement made with, 1,502,945
—, chlorine solution made with, 1,298,552; 1,298,553; 1,298,554
—, cigarette holders made with, 1,482,358
—, cobalt made with, 1,146,373
—, cod oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, colloid made with, 1,502,945
—, copper made with, 1,144,402; 1,146,373; 1,163,286; 1,207,243
—, copper(ous) chloride made with, 1,207,243
—, corn oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, cotton cleaned using, 1,327,631
—, cotton seed oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, cyanides formed with, 1,408,754
—, decolorizing with carbon and, 1,447,461
—, depilatory solution contg., 1,435,876

Barium hydroxide, door knobs made with, 1,482,358
—, dye intermediate made with, 1,453,659
—, ergot alkaloids liberated by, 1,394,233
—, esters made with, 1,491,076
—, ethyl alcohol made with, 1,284,739; 1,284,740
—, fatty acids, cod oil, removal from of, using, 1,247,516
—, —, corn oil, removal from of, using, 1,247,516
—, —, cotton seed oil, removal from of, using, 1,247,516
—, —, fish oil, removal from of, using, 1,247,516
—, —, marine animal oil, removal from of, using, 1,247,516
—, —, menhaden oil, removal from of, using, 1,247,516
—, —, oil, vegetable, removal from of, using, 1,247,516
—, —, whale oil, removal from of using, 1,247,516
—, fertilizer made with, 1,188,898
—, film made with, 1,502,945
—, fish oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, flooring made with, 1,246,805; Re-14,653; 1,246,807
—, formaldehyde-urea condensate made with, 1,482,358
—, gear made with, 1,514,508
—, germicide contg., 1,343,034
—, glue made with, 1,192,783
—, glue, vegetable, made with, 1,275,799; 1,357,310
—, gold made with, 1,144,402; 1,146,373; 1,163,286
—, handles made with, 1,482,358
—, hexamethylenetetraminemethylhydroxide made with, 1,336,709
—, hide, bating of, using, 1,170,426
—, hydrochloric acid neutralized in bleach solution with, 1,298,552; 1,298,553; 1,298,554
—, hydrogenation, catalyst for, made with, 1,482,740
—, hydrogenation process using, 1,247,516
—, 4-hydroxy-naphthalene-1.3-dicarboxylic acid made with, 1,453,659
—, hypochlorous acid neutralized with, 1,298,552; 1,298,553; 1,298,554
—, hypophysis extract made with, 1,296,063; 1,296,064
—, ink, lithographic, made with, 1,131,578
—, insecticide made with, 1,343,034; 1,417,232
—, insulation, electric, made with, 1,131,578; 1,514,508
—, —, heat, made with, 1,456,667
—, inuline prepared with, 1,399,544
—, iron made with, 1,144,402; 1,146,373
—, iron, rust-proof coating for, contg., 1,305,331
—, iron(ic) arsenate made with, 1,146,373
—, iron(ic) arsenite made with, 1,146,373
—, iron(ic) oxide made with, 1,146,373
—, iron(ic) sulfate, basic, made with, 1,186,611
—, ivory substitute made with, 1,482,358; 1,514,509
—, jelly-like material made with, 1,502,945
—, ketone aldehyde condensate made with, 1,502,945
Barium hydroxide, kiln lining made with, 1,156,018
—, lacquer made with, 1,502,945
—, lead made with, 1,144,402; 1,146,373
—, lithopone alkalinity controlled with, 1,446,637
—, manganese made with, 1,146,373
—, manganese(ous) manganate ($(MnO)_2.MnO_3$), made with, 1,232,904
—, —, ($H_2Mn(MnO_4)_2$), made with, 1,232,904
—, —, ($MnO.MnO_3$), made with, 1,232,904
—, —, ($MnO.(MnO_3)_2$) made with, 1,232,004
—, manganese(ous) permanganate ($H_2Mn(Mn_2O_9)$), made with, 1,232,904
—, —, ($(MnO)_2.Mn_2O_7$), made with, 1,232,904
—, —, ($(MnO)_3.Mn_2O_7$, made with, 1,232,904
—, mfr. of, apparatus for, 1,133,392
—, —, barite for, 1,133,392
—, —, barite, zinc ore, contg., for, 1,238,242
—, —, barium carbonate for, 1,191,106; 1,247,510; 1,250,642; 1,490,769
—, —, barium oxide for, 1,133,392; 1,247,510
—, —, barium silicate ($BaSiO_3$), for, 1,247,510; 1,490,769
—, —, —, (Ba_2SiO_4), for, 1,247,510; 1,490,769
—, —, —, (Ba_3SiO_5), for, 1,490,769
—, —, barium sulfate for, 1,133,392; 1,250,642
—, —, barium sulfate, zinc ore contg., for, 1,238,242
—, —, barium sulfide for, 1,238,242; 1,316,133
—, —, bitumen for, 1,238,242
—, —, calcium hydroxide for, 1,250,642
—, —, calcium oxide for, 1,250,642
—, —, carbon for, 1,238,242; 1,247,510
—, —, coal for, 1,238,242
—, —, coke for, 1,238,242
—, —, gas for, 1,238,242
—, —, process for, 1,133,392; 1,238,242; 1,247,510; 1,250,642; 1,460,180; 1,490,769
—, —, silica for, 1,247,510
—, —, tiff, zinc ore contg., 1,238,242
—, —, water for, 1,238,242; 1,247,510; 1,490,769
—, —, zinc carbonate ore for, 1,238,242
—, —, zinc ore, barite in, for, 1,238,242
—, —, —, barium sulfate in, for, 1,238,242
—, —, —, tiff in, for, 1,238,242
—, —, zinc oxide for, 1,238,242
—, —, zinc oxide ore for, 1,238,242
—, —, zinc sulfide ore for, 1,238,242
—, marine animal oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, match composition contg., 1,290,146
—, menhaden oil, fatty acids, removal from of, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, mercury made with, 1,146,373
—, metal made with, 1,146,373
—, metaldehyde made with, 1,432,387
—, methylhexamethylenetetramine hydroxide made with, 1,336,709
—, methylhexamethylenetetramine salts decomposed with, 1,336,709
—, *b*-methyl-*N.N'*-tetramethylene-bis-glycine made with, 1,150,579
—, molasses desugarized with, 1,460,180

Barium hydroxide, molded article made with, 1,146,299; 1,246,805; Re-14,653; 1,246,807; 1,482,358; 1,502,945; 1,514,508; 1,514,509
—, nickel made with, 1,146,373
—, nickel, catalyst, made with, 1,426,629; 1,482,740
—, oil, vegetable, fatty acids, removal of from, using, 1,247,516
—, —, —, hydrogenation of, using, 1,247,516
—, oil-boiling vapors absorbed by, 1,438,565
—, ornaments made with, 1,482,352
—, paint made with, 1,131,578; 1,213,330
—, pearl, artificial, made with, 1,289,873
—, phenol made with, 1,301,909
—, phenol aldehyde condensate made with, 1,146,300; 1,187,232
—, phenol aldehyde condensate solvent contg., 1,146,299
—, pickling liquor, treatment of with, 1,287,939
—, pigment made with, 1,169,253; 1,205,144; 1,213,330; 1,234,260; 1,240,405
—, pipe stems made with, 1,482,358
—, plastic made with, 1,146,299; 1,502,945
—, plate, printing, made with, 1,146,299
—, potassium aluminate made with, 1,191,106
—, potassium carbonate treated with, 1,302,937
—, potassium chlorate made with, 1,247,619
—, potassium chloride made with, 1,191,106; 1,247,619
—, potassium compound made with, 1,247,619
—, potassium hydroxide made with, 1,247,510; 1,247,619; 1,302,937
—, potassium sulfate treated with, 1,302,937
—, pungent compound made with, 1,503,631
—, quebracho tanning compound made with, 1,241,950
—, record, phonograph, made with, 1,146,299; 1,482,358
—, resin, artificial, made with, 1,482,358; 1,502,945
—, rubber, vulcanization of, using, 1,203,241
—, "rubber-like acetone compound" made with, 1,502,945
—, rubber substitute made with, 1,151,948
—, saponin rendered non-poisonous with. 1,415,325
—, sewage, softening of, using, 1,222,637
—, silk cleaned using, 1,327,631
—, silver made with, 1,144,402; 1,146,373; 1,163,286
—, sizing made with, 1,192,783
—, skin, bating of, using, 1,170,426
—, sludge sulfonic acid, treatment of with, 1,211,721
—, sodium aluminate made with, 1,191,106
—, sodium carbonate, sodium hydroxide, removal from of, using, 1,500,994
—, sodium carbonate treated with, 1,302,937
—, sodium chloride made with, 1,191,106
—, sodium hydroxide made with, 1,247,510; 1,249,314; 1,302,937
—, sodium hydroxide, sodium carbonate, removal of from, using, 1,500,994
—, sodium hydroxide generating powder contg., 1,342,148
—, sodium sulfate treated with, 1,302,937
—, spray of copper sulfate and, 1,384,304
Barium hydroxide, starch glue treated with, 1,396,315
—, starch paste contg., 1,357,310
—, stone, artificial, made with, 1,246,805; Re-14,653; 1,246,807
—, sulfite waste liquor insolubilized with, 1,385,941
—, sulfuric acid in metaldehyde removed by, 1,432,387
—, tanning compound made with, 1,241,950
—, tetramethylene-bis-glycine made with, 1,150,579
—, thermionic cathodes coated with, 1,467,398
—, thyroid product made with, 1,392,767; 1,392,768
—, tin made with, 1,146,373
—, titanium(ic) oxide pigment made with, 1,223,357; 1,223,358
—, titanium pigment prepared with, 1,410,056
—, toilet article made with, 1,482,358
—, tropic acid made with, 1,305,301
—, undeconylamino-methyl-alcohol made with, 1,503,631
—, urea-formaldehyde condensate made with, 1,458,543; 1,482,358
—, varnish made with, 1,131,578; 1,502,945
—, viscose filaments treated with, 1,371,300
—, vitamin made with, 1,162,907; 1,235,198
—, vitamin compound, action on of, 1,488,815
—, water, boiler, treated with, 1,235,815
—, —, softening of, using, 1,222,637; 1,333,393; 1,510,469
—, —, treatment of, using, 1,222,637
—, whale oil, fatty acids, removal of from, using, 1,247,516
—, —, hydrogenation of, using, 1,247,516
—, wood, barium sulfate impregnated, made with, 1,262,228
—, wool cleaned using, 1,327,631
—, zinc made with, 1,144,402; 1,146,373; 1,163,286
—, *see also Alkali earth hydroxide*
Barium iodide, olefin acid extracts iodinated with, 1,440,976
Barium lead alloy, mfr. of, electrolytic process for, 1,360,339
—, —, lead for, 1,360,339
—, —, process for, 1,360,339
Barium lead cathode, see Lead barium cathode
Barium lead group metal, oxygen removed from nitrogen with, 1,320,192
Barium manganate, barium permanganate made with, 1,453,562
—, —, sulfuric acid for mfr., 1,368,076
—, battery, dry, depolarizer for, made with, 1,232,904
—, calcium permanganate made with, 1,453,562
—, formation of, 1,453,562
—, iron, rust-proofing of using, 1,287,605
—, magnesium permanganate made with, 1,453,562
—, manganese(ous) manganate, ($H_2Mn(MnO_4)_2$), made with, 1,232,904
—, —, ($MnO.MnO_3$). made with, 1,232,904
—, —, ($MnO.(MnO_3)_2$), made with, 1,232,904
—, —, ($(MnO)_2MnO_3$), made with, 1,232,904

Barium manganate, mfr. of, air for, 1,318,891
—, —, apparatus for, 1,318,891
—, —, barium carbonate for, 1,318,891
—, —, barium chlorate for, 1,453,562
—, —, barium dioxide for, 1,453,562
—, —, barium hydroxide for, 1,318,891; 1,453,562
—, —, barium nitrate for, 1,453,562
—, —, barium salt for, 1,453,562
—, —, calcium hydroxide for, 1,453,562
—, —, "green ash leachings" for, 1,453,562
—, —, manganese dioxide for, 1,318,891; 1,453,562
—, —, manganese oxide for, 1,453,562
—, —, process for, 1,318,891; 1,453,562
—, —, sodium hydroxide for, 1,453,562
—, —, sodium nitrate for, 1,453,562
—, oxidation of to permanganate, 1,368,076
—, rust-proofing compound contg., 1,291,352
Barium manganese cyanide ($Ba_2Mn(CN)_6$), ammonia, catalyst for the mfr. of, 1,439,291; 1,439,292
—, —, catalyst, for the mfr. of, ammonia, made with, 1,439,291; 1,439,292
Barium mangani-manganate, basic, formation of, 1,453,562
Barium manganite manganate, battery, dry, made with, 1,236,693
—, mfr. of, barium hydroxide for, 1,236,693
—, —, potassium nitrate for, 1,236,693
—, —, potassium permanganate for, 1,236,693
—, —, process for, 1,236,693
Barium-*o*-methylphenylenedithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Barium-*p*-methylphenylenedithiocarbamate, accelerator in rubber vulcanization, 1,440,962; 1,440,963
Barium mineral, cyanides made with, 1,156,108
Barium molybdate, alkali metal made with, 1,124,143
—, hydrochloric acid made with, 1,124,143
—, hydrogen made with, 1,124,143
—, molybdenum made with, 1,124,143
—, potassium made with, 1,124,143
—, sodium made with, 1,124,143
Barium naphthenate, coating composition contg., 1,428,272
Barium naphtholsulfonate, mfr. of, 1,452,481
Barium nitrate, acetic anhydride made with, 1,153,402
—, adhesive, fireproof, made with, 1,248,092
—, anhydride made with, 1,153,402
—, anti-static photographic film contg., 1,431,900; 1,434,453
—, balata article, vulcanization of using, bath of, 1,152,834
—, barium acetyl-salicylate made with, 1,217,862
—, barium manganate made with, 1,453,562
—, barium oxide made with, 1,273,824; 1,305,618; 1,376,604; 1,376,605; 1,376,606
—, barium sulfate made with, 1,303,426
—, battery, storage, negative plate for, made with, 1,164,464
—, beef, corned, cured with, 1,259,377
—, belting made with, 1,180,902
Barium nitrate, boot, rubber, vulcanization of using, bath of, 1,152,834
—, brass, etching of, electrolyte, contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, butyric anhydride made with, 1,153,402
—, catalyst, hydrogenation, made with, 1,172,062
—, —, nickel as, made with, 1,172,062
—, cement contg., 1,456,667
—, cement, waterproofing of using, 1,519,285
—, concrete, waterproofing of using, 1,519,285
—, copper, etching of, electrolyte, contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, dart, incendiary, made with, 1,181,278
—, detonator made with, 1,194,095; 1,206,456
—, dyestuff recovered using, 1,303,426
—, electrode, arc lamp, made with, 1,240,628
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, explosive contg., 1,132,873; 1,174,546; 1,188,244; 1,188,245; 1,188,246; 1,307,766; 1,310,466; 1,335,790; 1,350,465; 1,386,440; 1,392,851; 1,393,984; 1,395,775; 1,397,042; 1,404,653; 1,416,121; 1,416,122; 1,416,123; 1,420,364; 1,464,012; 1,464,667; 1,509,362; 1,509,393
—, explosive, nitrostarch, contg., 1,305,845
—, filament made with, 1,180,902
—, film, photographic, made with, 1,431,900; 1,434,453
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,248,092
—, fireworks made with, 1,145,421
—, flash light powder made with, 1,240,027
—, formation of, 1,427,441
—, gutta percha article, vulcanization of using bath of, 1,152,834
—, ham cured with, 1,259,377
—, heater, chemical, made with, 1,506,322; 1,506,323
—, hose, rubber, vulcanization of using bath of, 1,152,834
—, hydrogen made with, 1,506,323
—, hydrogenation, catalyst for, made with 1,172,062
—, hydrogen dioxide made with, 1,364,558
—, incendiary composition contg., 1,308,463
—, insulating composition contg., 1,456,667
—, insulation, heat, made with, 1,456,667
—, leather, artificial, made with, 1,180,902
—, manganese dioxide made with, 1,325,129; 1,415,395
—, mfr. of, acetic acid for, 1,273,824
—, —, aluminum nitrate for, 1,321,013
—, —, ammonium nitrate for, 1,273,824
—, —, apparatus for, 1,133,392; 1,285,824
—, —, barite for, 1,133,392
—, —, barium chloride for, 1,273,824
—, —, barium dioxide for, 1,273,824
—, —, barium oxide for, 1,133,392
—, —, barium phosphate ($BaHPO_4$), for, 1,273,824
—, —, —, ($Ba(H_2PO_4)_2$), for, 1,273,824
—, —, barium sulfate for, 1,133,392; 1,285,824
—, —, barium sulfhydrate for, 1,285,824
—, —, barium sulfide for 1,285,824; 1,321,013
—, —, calcium nitrate for, 1,273,824

Barium nitrate, mfr. of, chromium nitrate for, 1,321,013
—, —, coal for, 1,285,824
—, —, hydrochloric acid for, 1,273,824
—, —, magnesium nitrate for, 1,321,013
—, —, magnesium phosphate ($Mg(H_2PO_4)_2$), for, 1,273,824
—, —, nitric acid for, 1,133,392; 1,273,824; 1,285,824
—, —, phosphoric acid for, 1,273,824
—, —, process for, 1,133,392; 1,273,824; 1,285,824
—, —, sodium nitrate for, 1,273,824
—, meat cured with, 1,259,377
—, mortar waterproofing of using, 1,519,285
—, nickel, catalyst, made with, 1,172,062
—, —, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, nitric acid made with, 1,415,395
—, nitrogen pentoxide made with, 1,153,402
—, nitrous acid made with, 1,273,824
—, paint, fireproof, made with, 1,248,092
—, paper, fireproof sizing for, made with, 1,248,092
—, photo-electric cell made with, 1,376,604; 1,376,605
—, plastic made with, 1,180,902
—, powder, black, made with, 1,354,640
—, —, propellent, made with, 1,354,640
—, —, smokeless, contg., 1,390,740
—, primer made with, 1,174,669; 1,184,316; 1,312,156; 1,416,121; 1,416,122; 1,416,123
—, propionic anhydride made with, 1,153,402
—, pyrotechnic composition ingredient, 1,423,264
—, railway signal fuse made with, 1,180,438
—, rubber article, vulcanization of using, bath of, 1,152,834
—, rubber substitute made with, 1,180,902
—, rustproofing using, 1,493,012
—, separation from permanganate, 1,453,562
—, shoe, rubber, vulcanization of using bath of, 1,152,834
—, smoke producing compound made with, 1,244,940
—, starch, fireproof, made with, 1,248,092
—, steel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, stone, artificial, contg., 1,456,667
—, target made with, 1,145,585
—, thermite contg., 1,395,769
—, thermite igniting mixture contg., 1,395,769
—, thread made with, 1,180,902
—, tire-rubber, vulcanization of using bath of, 1,152,834
—, varnish, fireproof, made with, 1,248,092
—, water gas made with, 1,506,323
—, water proofing made with, 1,180,902
—, zinc, etching of, electrolyte contg., 1,314,838; 1,314,840; 1,314,841; 1,314,842
—, zinc sulfate removed from lithopone with, 1,260,811; 1,260,812
Barium nitride, alkali cyanide made with, 1,472,403
—, ammonia, catalyst for the mfr. of, made with, 1,491,588
—, catalyst, ammonia made with, 1,128,843
—, sodium cyanamide made with, 1,160,811
Barium nitride, sodium cyanide made with, 1,160,811; 1,472,403
Barium nitrite, barium acetyl-salicylate made with, 1,217,862
—, beef, corned, cured with, 1,259,377
—, ham cured with, 1,259,377
—, lightning arrester made with, 1,238,660
—, meat cured with, 1,259,377
—, pyrotechnic composition ingredient, 1,423,264
Barium oleate, coating composition contg., 1,428,272
Barium oxalate, catalyst made with, 1,473,543
—, etching, electrolyte for, contg., 1,273,432
—, intestines tanned with, 1,444,548
—, leather made with, 1,444,548
—, radio-active solutions made using, 1,236,213
—, radium oxalate prevented from dissolving by use of, 1,236,213
Barium oxide, abrasive made with, 1,257,356
—, adhesive, fireproof, made with, 1,248,092
—, aluminum, zirconium alloy contg., made using, 1,248,648
—, aluminum fluoride made with, 1,518,872
—, aluminum nitride made with, 1,268,240
—, aluminum oxide made with, 1,191,106
—, aluminum sulfate made with, 1,126,408
—, ammonia, catalyst for the mfr. of, made with, 1,206,155; 1,489,497; 1,491,588
—, ammonia made with, 1,123,763; 1,206,155
—, ammonia made with catalyst contg., 1,306,862
—, ammonia producing catalyst made with, 1,473,543
—, antimony made with, 1,144,402; 1,146,373
—, antimony pentasulfide made with, 1,414,837
—, antimony sulfide prepared with, 1,415,127
—, arsenic made with, 1,144,402; 1,146,373
—, audion, electron emitting cathode for, made with, 1,419,530
—, audion filament contg., 1,453,267
—, balata vulcanized with, 1,320,166
—, balata vulcanization accelerator, 1,320,166
—, barium acetyl-salicylate made with, 1,217,862
—, barium aluminate made with, 1,191,106
—, barium carbide made with, 1,327,738; 1,403,633
—, barium chloride made with, 1,133,392; 1,191,106
—, barium cyanide made with, 1,355,642
—, barium dioxide made with, 1,273,824; 1,305,618
—, barium fluosilicate made with, 1,518,872
—, barium hydroxide made with, 1,133,392; 1,247,510
—, barium nitrate made with, 1,133,392
—, barium sulfate made with, 1,191,106
—, base exchanging material made with, 1,343,927
—, bismuth made with, 1,144,402; 1,146,373
—, borosilicate glass made with, 1,449,793
—, bronze casting, closing pores in, using, 1,214,630
—, cadmium made with, 1,144,402; 1,146,373
—, calcium bisulfite, castings impervious to, made with, 1,214,630
—, calcium hydroxide dried with, 1,410,087

Barium oxide, calcium silicate (Ca_2SiO_4), made with, 1,126,408
—, carbon, decolorizing, made with, 1,250,228
—, case hardening compound made with, 1,361,131
—, catalyst, acetylene made with, 1,144,800; 1,144,801
—, —, ethylene made with, 1,144,800; 1,144,801
—, —, illuminating gas made with, 1,144,800; 1,144,801
—, —, (for the mfr. of ammonia), made with, 1,206,155; 1,489,497; 1,491,588
—, —, (for the mfr. of sulfuric acid), made with, 1,489,497
—, —, (for water gas reaction), made with 1,489,497
—, —, methane made with, 1,144,800; 1,144,801
—, catalyst for hydrogenation of hydrocarbon made with, 1,152,765
—, catalyst for hydrogenation of lamp oil made with, 1,152,765
—, catalyst for hydrogenation of petroleum made with, 1,152,765
—, catalyst for hydrogenation of resin oil made with, 1,152,765
—, catalyst for hydrogenation of shale oil made with, 1,152,765
—, catalyst carrier, ammonia, oxidation of, using, 1,322,291
—, —, nitrogen oxides, mfr. of, using, 1,322,291
—, catalyst promoter, ammonia made with, 1,148,570; 1,152,930
—, cellulose sulfite liquor treated with, 1,284,739; 1,284,740
—, cement contg., 1,456,667
—, cement, hydraulic, made with, 1,186,522; Re-14,773; 1,224,454
—, cesium sulfate made with, 1,126,408
—, cobalt made with, 1,146,373
—, cobalt, zirconium alloy contg., made with, 1,248,648
—, columbium, zirconium alloy contg., made with, 1,248,648
—, copper made with, 1,144,402; 1,146,373; 1,163,286; 1,207,248
—, copper(ous) chloride made with, 1,207,243
—, cyanogen made with catalyst contg., 1,306,862
—, cyanides made with, 1,206,155; 1,408,754
—, decolorizing with carbon and, 1,447,461
—, dimethylerythrene vulcanized with, 1,320,166
—, dimethylerythrene vulcanization accelerator, 1,320,166
—, electrolyte contg., 1,273,432
—, erythrene india rubber vulcanized with, 1,320,166
—, erythrene india rubber vulcanization accelerator, 1,320,166
—, ethyl alcohol made with, 1,284,739; 1,284,740
—, fertilizer made with, 1,126,408
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,248,092
—, formates made with, 1,206,155
—, formation of, barium carbonate for, 1,318,258
—, —, carbon for, 1,318,258
—, —, hydrocyanic acid for, 1,352,176
—, —, nitrogen for, 1,318,258
Barium oxide, glass contg., 1,151,911; 1,305,793; 1,305,794; 1,449,793; 1,513,923
—, glass compound made with, 1,143,885
—, gold made with, 1,144,402; 1,146,373; 1,163,286
—, gutta-percha vulcanized with, 1,320,166
—, gutta-percha vulcanization accelerator, 1,320,166
—, hydrocarbon, hydrogenation of, catalyst for made with, 1,152,765
—, hydrogenation catalyst made with, 1,152,765
—, incendiary composition contg., 1,308,463
—, indoxyl made with, 1,211,413; Re-14,364
—, ink, lithographic, made with, 1,131,578
—, insulating composition contg., 1,456,667
—, insulation, electric, made with, 1,131,578; 1,196,505
—, —, heat, made with, 1,456,667
—, insulator, electric, made with, 1,143,885
—, intestines tanned with, 1,444,546
—, iron made with, 1,144,402; 1,146,373
—, iron, zirconium alloy contg., made using, 1,248,648
—, iron(ic) arsenate made with, 1,146,373
—, iron(ic) arsenite made with, 1,146,373
—, iron(ic) oxide made with, 1,146.373
—, isoprene vulcanized with, 1,320,166
—, isoprene vulcanization accelerator, 1,320,166
—, lamp oil, hydrogenation of, catalyst for made with, 1,152,765
—, lead made using, 1,144,402; 1,146,373
—, leather, artificial, made with, 1,334,297
—, leatheroid contg., 1,334,297
—, light transforming composition made with, 1,196,144
—, lithium sulfate made with, 1,126,408
—, manganese made with, 1,146,373
—, manganese, zirconium alloy contg., made with, 1,248,648
—, mfr. of, apparatus for, 1,133,392
—, —, barite for (1,112,721); Re-13,924; 1,133,392
—, —, barium azoimide for, 1,269,520
—, —, barium carbonate for, 1,243,190; 1,250,642; 1,305,618; 1,326,332
—, —, barium carbonate, basic, effect of on, 1,305,618
—, —, barium nitrate for, 1,273,824; 1,305,618
—, —, barium sulfate for (1,112,721); Re-13,924; 1,133,392; 1,250,642
—, —, calcium hydroxide for, 1,250,642
—, —, calcium oxide for, 1,250,642
—, —, carbon for (1,112,721); Re-13,924; 1,305,618; 1,326,332
—, —, carbon dust for, 1,243,190
—, —, carbon monoxide for, 1,243,190
—, —, charcoal for, 1,326,332
—, —, coke, oil, for, 1,326,332
—, —, coke, petroleum, for, 1,326,332
—, —, hydrazoic acid, barium salt of, 1,269,520
—, —, lamp black for, 1,326,332
—, —, process for (1,112,721); Re-13,924; 1,133,392; 1,243,190,; 1,250,642; 1,269,520; 1,326,332
—, —, soot for, 1,326,332
—, —, strontium carbonate, effect of on, 1,305,618
—, mercury made with, 1,146,373

Barium oxide, metal made with, 1,146,373
—, metal casting, closing pores in, using, 1,214,630
—, *N*-methyl-aniline made with, 1,221,077
—, molded article made with, 1,146,299
—, naphthol made with, 1,274,961
—, nickel made with, 1,146,373
—, nickel, zirconium alloy contg., made with, 1,248,648
—, nitrogen made with, 1,207,567
—, nitrogen, fixation of using, 1,175,007; 1,206,155; 1,501,760
—, oxidizing to peroxide, apparatus for, 1,349,417
—, paint made with, 1,131,578
—, paint, fireproof, made with, 1,248,092
—, paper, fireproof sizing for, made with, 1,248,092
—, petroleum hydrogenation of, catalyst for, made with, 1,152,765
—, phenol made with, 1,274,961
—, phenols made with, 1,274,961
—, phenol aldehyde condensate solvent contg., 1,146,299
—, phonograph record made with, 1,206,034
—, phosphoric acid made with, 1,126,408
—, photo-electric cell made with, 1,376,604; 1,376,605
—, photo-electric cell comprising use of, 1,376,604; 1,376,605; 1,376,606
—, plastic made with, 1,146,299
—, plate, printing, made with, 1,146,299
—, potassium aluminate made with, 1,191,106
—, potassium aluminum sulfate made with, 1,126,408
—, potassium carbonate treated with, 1,302,937
—, potassium chloride made with, 1,186,522; Re-14,773; 1,191,106; 1,224,454; 1,254,450; 1,254,451
—, potassium compounds made with, 1,224,454; 1,354,450; 1,354,451
—, potassium hydroxide made with, 1,302,937
—, potassium sulfate made with, 1,261,408; 1,302,937
—, quebracho tanning compound made with, 1,241,950
—, railway signal fuses made with, 1,180,438
—, reduction of, apparatus for, 1,173,390
—, —, hydrogen for, 1,173,390
—, —, process for, 1,173,390
—, —, producer gas for, 1,173,390
—, record phonograph made with, 1,146,299
—, resin, artificial, made with, 1,381,863
—, resin oil, hydrogenation of, catalyst for, made with, 1,152,765
—, resinous material made with, 1,482,919
—, resorcinol made with, 1,274,961
—, —, vulcanization of, using, 1,203,241
—, rubber, artificial, vulcanized with, 1,320,166
—, —, —, vulcanization accelerator, 1,320,166
—, —, synthetic, vulcanized with, 1,320,166
—, —, —, vulcanization accelerator, 1,320,166
—, rubber vulcanized with, 1,320,166
—, rubber vulcanization accelerator, 1,320,166
—, rubidium sulfate made with, 1,126,408
—, shale oil, hydrogenation of, catalyst for made with, 1,152,765
—, silicon made with, 1,518,872
Barium oxide, silicon alloy made with, 1,518,872
—, silver made using, 1,144,402; 1,146,373; 1,163,286
—, sodium aluminate made with, 1,191,106
—, sodium carbonate treated with, 1,302,937
—, sodium carbonate, sodium hydroxide, removal from of, using, 1,500,994
—, sodium chloride made with, 1,191,106
—, sodium hydroxide made with, 1,302,937
—, sodium hydroxide, generating powder contg., 1,342,148
—, sodium hydroxide, sodium carbonate, removal of from, using, 1,500,994
—, sodium sulfate made with, 1,126,408; 1,302,937
—, starch, fireproof, made with, 1,248,092
—, stone, artificial, contg., 1,456,667
—, sulfite waste liquor insolubilized with, 1,385,941
—, sulfuric acid, catalyst for the mfr. of, made with, 1,489,497
—, —, heat, generated by reaction of on, 1,303,618
—, sulfurous acid, casting impervious to, made with, 1,214,630
—, tanning compound made with, 1,241,950
—, tantalum, zirconium alloy contg., made with, 1,248,648
—, thermionically active filaments coated with, 1,419,530 See errata v 5 p 1090
—, tile, anti-slipping, made with, 1,451,662
—, tin made with, 1,146,373
—, titanium, zirconium alloy contg., made with, 1,248,648
—, tungsten filaments prevented from offsetting by, 1,363,162
—, varnish made with, 1,131,578; 1,381,863; 1,482,919
—, varnish, fireproof, made with, 1,248,092
—, vulcanization process using, 1,249,180
—, water gas reaction, catalyst for, made with, 1,489,497
—, "xylium," composition of and, 1,175,422; 1,175,423
—, zinc made with, 1,144,402; 1,146,373; 1,163,286
—, zinc sulfite made with, 1,198,241
—, zirconium alloy, aluminum in, made with, 1,248,648
—, —, cobalt in, made with, 1,248,648
—, —, columbium in, made with, 1,248,648
—, —, iron in, made with, 1,248,648
—, —, manganese in, made with 1,248,648
—, —, nickel in, made with, 1,248,648
—, —, tantalum in, made with, 1,248,648
—, —, titanium in, made with, 1,248,648
Barium oxychloride, billiard ball made with, 1,175,425
—, bone substitute made with, 1,175,425
—, brush back made with, 1,175,425
—, celluloid substitute made with, 1,175,425
—, cement made with, 1,175,426
—, insulation, electric, made with, 1,175,424
—, ivory substitute made with, 1,175,425
—, knife handle made with, 1,175,425
—, molded article made with, 1,175,425
—, plastic made with, 1,175,425; 1,175,426

Barium oxychloride, shoe, rubber, mfr. of, last for, made with, 1,175,428
Barium palmitate, coating composition contg., 1,428,272
Barium perchlorate, dicyandiamidine perchlorate made with, 1,298,793
—, lamp, electric, tungsten filament, made with, 1,240,700
—, match made with, 1,329,537
—, match heads contg., 1,329,537
—, primer made with, 1,174,669; 1,184,316; 1,308,394; 1,311,872; 1,312,156
—, priming charge contg., 1,308,393
—, pyrotechnic composition ingredient, 1,423,264
Barium permanganate, battery, dry, depolarizer for, made with, 1,232,904
—, calcium permanganate made with, 1,453,562
—, iron, rust-proofing of using, 1,287,605
—, manganese(ous) permanagnate $H_2Mn(Mn_2O_8)$, made with, 1,232,904
—, —, $(MnO)_2.Mn_2O_7$, made with, 1,232,904
—, —, $(MnO)_3.Mn_2O_7$, made with, 1,232,904
—, mfr. of, 1,453,562
—, —, acids for, 1,453,562
—, —, air for, 1,318,891
—, —, apparatus for, 1,318,891
—, —, barium carbonate for, 1,318,891
—, —, barium hydroxide for, 1,318,891
—, —, barium manganate for, 1,453,562
—, —, bromine for, 1,453,562
—, —, carbon dioxide for, 1,453,562
—, —, chlorine for, 1,453,562
—, —, manganese dioxide for, 1,318,891
—, —, nitric acid for, 1,453,562
—, —, ozone for, 1,453,562
—, —, process for, 1,318,891; 1,453,562
—, —, sulfuric acid, for, 1,453,562
—, permanganic acid prepared with, 1,368,076
—, residues from, battery, contg., 1,402,285
—, rust-proofing compound contg., 1,291,352
—, sodium permanganate made with, 1,368,076
—, zinc sulfate, cobalt, removal of from, made with, 1,283,077
Barium peroxide, air purified with, 1,379,221
—, explosive contg., 1,350,465
—, formation of, barium hydroxide for, 1,316,133
—, hydrogen peroxide from carbon dioxide and, 1,379,221
—, mfr. of, apparatus for, 1,349,417
—, nickel oxide oxidized by, 1,371,746
—, primer contg., 1,311,872
—, priming charge contg., 1,308,393
—, *see also Barium dioxide*
Barium persulfate, battery, dry, made with, 1,147,753
—, —, storage, negative plate for, made with, 1,164,464
Barium phenolate, ammonia producing catalyst made with, 1,473,543
—, catalyst made with, 1,473,543
Barium phosphate, acid, rustproofing using, 1,167,966
—, barium acetyl-salicylate made with, 1,217,862
—, formation of in hydrogen dioxide mfr., 1,364,558
Barium phosphate, hydrogen dioxide made with, 1,210,651
—, iron, cleaner for, contg., 1,268,237
—, —, rustproof coating for, contg., 1,305,331
—, mfr. of, barium hydroxide for, 1,213,330
—, —, barium sulfide for, 1,213,330
—, —, phosphoric acid for, 1,213,330
—, —, process for, 1,213,330
—, metal, cleaner for, contg., 1,268,237
—, paint made with, 1,213,330
—, phosphoric acid made with, 1,511,929
—, pigment made with, 1,213,330
—, steel, cleaner for, contg., 1,268,237
—, (basic), formation in hydrogen dioxide mfr., 1,398,468
—, ($BaHPO_4$), barium nitrate made with, 1,273,824
—, —, mfr. of, barium dioxide for, 1,273,824
—, —, —, barium phosphate ($Ba(H_2PO_4)_2$, for, 1,273,824
—, —, —, nitric acid for, 1,273,824
—, —, —, phosphoric acid for, 1,273,824
—, —, —, process for, 1,273,824
—, ($Ba(H_2PO_4)_2$), barium nitrate made with, 1,273,824
—, —, barium phosphate $Ba(HPO_4)$, made with, 1,273,824
—, —, hydrogen dioxide made with, 1,273,824
—, ($Ba_3P_2O_8$), pigment contg., 1,220,973
Barium platinum-potassium cyanide, see Platinum-barium-potassium cyanide
Barium radium chloride, bath salts made with, 1,189,653
—, *see also Radium barium chloride*
Barium radium compounds, decomposition of, sodium carbonate for, 1,399,246
Barium radium sulfate, see Barium sulfate
—, *see also Radium sulfate*
Barium resinate, audion, electron emitting cathode for, made with, 1,209,324
—, audion filament contg., 1,453,267
—, coating composition contg., 1,428,272
—, explosive contg., 1,473,257
Barium ricinoleate, cement paint contg., 1,189,550
—, coating composition made with, 1,189,550; 1,189,551
—, concrete, coating composition for, made with, 1,189,550; 1,189,551
Barium saccharate, barium carbonate made with, 1,247,510; 1,460,180
—, formation of, 1,460,180
Barium salt, barium manganate made with, 1,453,562
—, barium tungstate from, 1,335,277
—, battery, storage, separator for, made with, 1,228,368
—, bleaching process using, 1,155,101; 1,155,102
—, catalyst promoter, ammonia made with, 1,148,570; 1,152,930
—, cement contg., 1,456,667
—, citric acid made with, 1,166,674
—, color lake made with, 1,157,525
—, cyanogen compound made with, 1,321,459
—, dyestuff recovered using, 1,303,426
—, electrolysis of, cell for, 1,396,919

Barium salt, fat, saponification of, compound for, made with, 1,170,468
—, felt made with, 1,213,403
—, filler made with, 1,242,480
—, *d*-fructose made with, 1,166,674
—, fur, secreting of, using, 1,213,403
—, *d*-glucose made with, 1,166,674
—, glue, vegetable, made with, 1,357,310
—, glycerol made with, 1,170,468
—, hair, secreting of, using, 1,213,403
—, ink, printing, made with 1,157,525
—, insulating composition contg., 1,456,667
—, insulation, heat, made with, 1,456,667
—, lake made with, 1,445,331
—, metaldehyde made with, 1,432,387
—, 2-naphthol-3.6-disulfonic acid, 2-naphthol-6.8-disulfonic acid, separation from of, using, 1,494,096
—, 2-naphthol-6.8-disulfonic acid, 2-naphthol-3.6-disulfonic acid, separation of from using, 1,494,096
—, —, 2-naphthol-6-sulfonic acid, separation of from using, 1,494,096
—, 2-naphthol-6-sulfonic acid, 2-naphthol-6.8-disulfonic acid, separation from of using, 1,494,096
—, nitrates made with, 1,485,706
—, nitrogen oxides made with, 1,485,706
—, oil, saponification of, compound for, made with, 1,170,468
—, paint made with, 1,157,525; 1,242,480
—, paper made with, 1,242,480
—, phosphorus reserve compound of green plants, mfr. of, 1,313,014
—, pigment made with, 1,157,525; 1,169,253; 1,242,480
—, potassium bitartrate made with, 1,278,257
—, quebracho tanning compound made with, 1,241,950
—, rat poison made with, 1,506,575
—, sodium cyanamide made with, 1,160,811
—, sodium cyanide made with, 1,160,811
—, stone, artificial, contg., 1,456,667
—, sucrose made with, 1,166,674
—, sugar, invert, made with, 1,166,674
—, sulfonated mineral oil, mfr. of, 1,301,662; 1,301,663
—, sulfuric acid in titanium hydroxide neutralized with, 1,361,866; 1,361,867
—, syrup made with, 1,166,674
—, tanning compound made with, 1,241,950
—, ureid of aminonaphthol compound, 1,308,071
—, water, purification of using, 1,199,098; 1,199,099
—, water softener contg., 1,162,024
Barium silicate, ammonia from, mfr. of, 1,453,210
—, barium acetyl-salicylate made with, 1,217,862
—, barium chloride made with, 1,495,893
—, battery, storage, separator for, made with, 1,495,568
—, glass composition contg., 1,415,980
—, potassium hydroxide made with, 1,440,211
—, sodium hydroxide made with, 1,440,211
—, sodium sulfate, action of on, 1,440,211
—, (di-basic), alkali silicate made with, 1,463,037
—, —, barium carbonate made with, 1,463,037
Barium silicate, (di-basic), barium sulfate made with, 1,463,037
—, —, mfr. of, barium carbonate for, 1,463,037
—, —, —, barium sulfate for, 1,463,037
—, —, —, carbon for, 1,463,037
—, —, —, silicon dioxide for, 1,463,037
—, —, —, sodium silicate made with, 1,463,037
—, (mono-basic), alkali silicate made with, 1,463,037
—, —, barium carbonate made with, 1,463,037
—, —, barium sulfate made with, 1,463,037
—, —, mfr. of, barium carbonate for, 1,463,037
—, —, —, barium sulfate for, 1,463,037
—, —, —, carbon for, 1,463,037
—, —, —, silicon dioxide for, 1,463,037
—, —, —, sodium silicate made with, 1,463,037
—, (tri-basic), alkali silicate made with, 1,463,037
—, —, barium carbonate made with, 1,463,037
—, —, barium sulfate made with, 1,463,037
—, —, mfr. of, barium carbonate for, 1,463,037
—, —, —, barium sulfate for, 1,463,037
—, —, —, carbon for, 1,463,037
—, —, —, silicon dioxide for, 1,463,037
—, —, sodium silicate made with, 1,463,037
—, ($BaSiO_3$), barium hydroxide made with, 1,247,510; 1,490,769
—, —, barium silicate (Ba_2SiO_4), made with, 1,247,510; 1,440,211; 1,490,769
—, —, —, (Ba_3SiO_5), made with, 1,440,211; 1,490,769
—, —, mfr. of, barium carbonate for, 1,247,510
—, —, —, barium silicate (Ba_2SiO_4), for, 1,247,510; 1,490,769
—, —, —, —, (Ba_3SiO_5), for, 1,490,769
—, —, —, process for, 1,247,510; 1,490,769
—, —, —, silica for 1,247,510
—, —, —, water for, 1,247,510; 1,490,769
—, (Ba_2SiO_4), alkali cyanide made with, 1,501,840
—, —, ammonia made with, 1,501,840
—, —, barium cyanide made with, 1,501,840
—, —, barium hydroxide made with, 1,247,510; 1,490,769
—, —, barium silicate ($BaSiO_3$), made with, 1,247,510; 1,490,769
—, —, mfr. of, barium carbonate for, 1,247,510; 1,490,769
—, —, —, barium silicate ($BaSiO_3$), for, 1,247,510; 1,440,211; 1,490,769
—, —, —, barium sulfate for, 1,440,211
—, —, —, carbon for, 1,440,211
—, —, —, process for, 1,247,510; 1,440,211; 1,490,769
—, —, —, silica for, 1,247,510; 1,490,769
—, —, potassium hydroxide made with, 1,440,211
—, —, sodium hydroxide made with, 1,440,211
—, (Ba_3SiO_5), barium hydroxide made with, 1,490,769
—, —, barium silicate ($BaSiO_3$), made with, 1,490,769
—, —, mfr. of, barium carbonate for, 1,490,769
—, —, —, barium silicate ($BaSiO_3$), for, 1,440,211; 1,490,769
—, —, —, barium sulfate for, 1,440,211
—, —, —, carbon for, 1,440,211
—, —, —, process for, 1,440,211; 1,490,769

Barium silicate, (Ba_3SiO_5), mfr. of, silica for, 1,490,769
—, —, potassium hydroxide made with, 1,440,211
—, —, sodium hydroxide made with, 1,440,211
Barium silico-fluoride, see Barium fluosilicate
Barium sludge sulfonate, mfr. of, process for, 1,301,662; 1,301,663; 1,303,779; 1,330,624
Barium soap, coating composition contg., 1,428,272
Barium stannofluoride, glass made with, 1,419,032
Barium stearate, carbon-paper made with, 1,292,404
—, coating composition contg., 1,428,272
—, mfr. of, barium chloride for, 1,292,404
—, —, oil for, 1,292,404
—, —, stearin for, 1,292,404
Barium sulfate, adhesive made with, 1,389,084
—, airplane fabric mending composition made with, 1,389,084
—, alkali bicarbonate, treatment with of, 1,471,751
—, alkali carbonate, treatment with, of 1,471,751
—, alkali earth bicarbonate, treatment with of, 1,471,751
—, alkali earth carbonate, treatment with of, 1,471,751
—, alkali earth hydroxide made with, 1,160,847
—, alkali earth hydroxide, treatment with of, 1,471,751
—, alkali hydroxide made with, 1,160,847
—, alkali hydroxide, treatment with of, 1,471,751
—, aluminum article, filling for joints of, made with, 1,223,458
—, aluminum nitride made with, 1,268,240
—, aluminum potassium sulfate made with, 1,296,457
—, antimony sulfide co-precipitated with, 1,415,127
—, anti-smearing composition for ink contg., 1,439,623
—, asbestos impregnated, mfr. of, barium hydroxide for, 1,262,228
—, —, —, process for, 1,262,228
—, —, —, sulfuric acid for, 1,262,228
—, Bakelite contg., 1,259,806
—, barium acetyl-salicylate made with, 1,217,862
—, barium aluminate made with, 1,240,751; 1,240,572
—, barium carbonate made with, 1,191,106; 1,247,510 1,444,623
—, barium chloride made with, 1,133,392; 1,146,491; 1,167,061; 1,279,090; 1,360,312; 1,495,893
—, barium chloride from carbonyl chloride and, 1,360,312
—, barium compounds made with, 1,428,646
—, barium fluoride made with, 1,194,344
—, barium hydroxide made with, 1,133,392; 1,250,642
—, barium nitrate made with, 1,133,392; 1,285,824
—, barium oxide made with, (1,112,721); Re-13,924; 1,133,392; 1,250,642
Barium sulfate, barium silicate made with, 1,440,211
—, barium silicate (Ba_2SiO_4), made with, 1,440,211
—, —, (Ba_3SiO_5), made with, 1,440,211
—, —, (di-basic), made with, 1,463,037
—, —, (mono-basic), made with, 1,463,037
—, —, (tri-basic), made with, 1,463,037
—, barium sulfide made with, (1,112,721); Re-13,924; 1,167,061; 1,284,739; 1,284,740; 1,267,347; 1,399,500; 1,434,693; 1,443,077; 1,444,623; 1,455,963; 1,457,436; 1,492,810; 1,495,187; 1,511,929
—, belt made with, 1,163,417
—, bleaching of, hydrochloric acid for, 1,458,461
—, —, process for, 1,452,315
—, —, sulfuric acid for, 1,458,461
—, boat mending composition made with, 1,389,084
—, bottle cap made with, 1,351,438
—, brass article, filling for joints of, made with, 1,223,458
—, battery, storage, electrode made with, 1,182,513
—, —, —, negative plate for, made with, 1,164,464
—, —, —, separator for, made with, 1,228,368; 1,495,568
—, —, —, —, made of asbestos impregnated with, 1,262,228
—, —, —, —, made of wood impregnated with, 1,262,228
—, bronze castings, closing pores in, using, 1,214,630
—, calcium bisulfite, castings impervious to, made with, 1,214,630
—, calcium sulfate made with, 1,146,491
—, caoutchouc composition contg., 1,437,487
—, carbon dioxide made with, 1,360,312
—, cardboard coated with, 1,273,673
—, cartridge shell, paper, made with, 1,158,024
—, case-hardening composition contg., 1,286,061
—, catalysts contg., 1,426,629
—, catalyst, hydrogenation, made with, 1,172,062; 1,222,660; 1,482,740
—, —, nickel as, made with, 1,172,062; 1,482,740
—, catalyst carrier, citronellal made with, 1,210,681
—, —, citronellic acid made with, 1,210,681
—, —, citronellol made with, 1,210,681
—, —, 3.7-dimethyl-caprylaldehyde made with, 1,210,681
—, —, 3.7-dimethyl-caprylic acid made with, 1,210,681
—, —, 3.7-dimethyl-Δ^6-3-octanol made with, 1,210,681
—, —, 3.7-dimethyl-1-octanol made with, 1,210,681
—, —, 3.7-dimethyl-3-octanol made with, 1,210,681
—, celluloid made with, 1,259,806
—, cement made with, 1,336,178; 1,507,379
—, cement, aromatic, contg., 1,455,598
—, —, glass-to-metal, contg., 1,132,721
—, —, Portland, made with, 1,194,344
—, chloride made with, 1,160,847
—, cleaner, metal, contg., 1,471,466

Barium sulfate, cleaning compound contg., 1,266,713
—, cloth coated with, 1,273,673
—, coating for material contg., 1,304,071
—, coating composition made with, 1,196,276
—, collar waterproofing composition contg., 1,453,764
—, colloidal, flotation with, 1,446,376; 1,446,377
—, —, preparing of, 1,409,648
—, —, rubber composition contg., 1,301,693
—, colloidal solution of, mfr. of, process for, 1,189,696
—, —, preparing, 1,429,876
—, color lake made with, 1,157,525; 1,358,007
—, coloring matter made with, 1,173,330
—, concrete, acid-proofing of, using, 1,495,138
—, —, bonding of, using, 1,495,138
—, —, oil-proofing of, using, 1,495,138
—, —, waterproofing of, using, 1,495,138
—, container made with, 1,163,417
—, container, metal, filling for joints of, made with, 1,223,458
—, copper article, filling for joints of, made with, 1,223,458
—, copying pad contg., 1,348,812
—, decolorizing with carbon and, 1,447,461
—, decomposing with heat, compressed air and alkali acid salt, 1,364,804
—, dental cement made with, 1,507,379
—, dissolving, 1,378,485
—, —, sodium chloride, fused, for, 1,388,285
—, dissolving with heat, compressed air and alkali acid salt, 1,364,804
—, dye made with, 1,173,330
—, dye precipitated using, 1,303,426
—, dyestuff recovered using, 1,303,426
—, electrode, arc-light, made with, 1,134,148; 1,148,183; 1,148,184; 1,239,810; 1,244,359
—, electrolyte contg., 1,291,310
—, enamel, plastic, contg., 1,389,084
—, fabric, printing composition for, made with, 1,173,330
—, filler for phenol aldehyde condensate, 1,377,519
—, film, photographic, made with, 1,507,174
—, —, —, X-ray, made with, 1,479,939
—, fish oil, hydrogenation of, catalyst for, made with, 1,222,660
—, flooring made with, 1,336,178
—, formation of, 1,343,918; 1,406,197; 1,427,826; 1,432,387; 1,434,693
—, —, barium chloride for, 1,303,426
—, —, magnesium sulfate for, 1,303,426
—, formation in hydrogen dioxide mfr., 1,398,468
—, formation from zinc sulfate and barium sulfide, 1,356,387
—, glass made with, 1,192,048; 1,488,915
—, glass, etching of, paste for, contg., 1,471,466
—, —, translucent, made with, 1,192,048
—, glass etching compound contg., 1,266,713
—, heater, chemical, made with, 1,506,323
—, —, electric, made with, 1,507,379
—, hydrogen made with, 1,506,323
—, hydrogenation, catalyst for, made with, 1,172,062; 1,222,660; 1,482,740
—, hydrogen dioxide, decomposition of by, 1,139,774
Barium sulfate, index of refraction of, 1,348,129
—, ink made with, 1,210,400; 1,286,916; 1,309,292; 1,369,252
—, ink, mimeograph, made with, 1,226,884; 1,381,648
—, —, printing, made with, 1,157,525; 1,283,455; 1,439,623
—, —, stencil, made with, 1,515,123
—, insecticide contg., 1,390,088
—, insulation, electric, made with, 1,183,423; 1,183,640; 1,295,356; 1,336,178; 1,398,143
—, —, heat, made with, 1,336,178
—, intestines tanned with, 1,444,548
—, iron, galvanized, article, filling for joints of, made with, 1,223,458
—, lake made with, 1,232,551; 1,232,552; 1,358,007; 1,369,252; 1,445,331
—, lake base, 1,431,081
—, leather made with, 1,444,548
—, leather coated with, 1,273,673
—, leather colored white with, 1,334,216
—, leather substitute made with, 1,163,417
—, leather treated with compound contg., 1,265,648
—, linolic acid, hydrogenation of, catalyst for, made with, 1,222,660
—, lithopone made with, 1,139,427; 1,399,500; 1,411,839; 1,478,347; 1,480,807; 1,489,790
—, lithopone ingredient, 1,399,500; 1,411,645; 1,411,648; 1,414,793; 1,425,436; 1,425,437; 1,446,637
—, lithopone pigment contg., 1,356,387
—, mfr. of, alunite for, 1,191,106; 1,274,145
—, —, ammonium hydroxide for, 1,274,145
—, —, ammonium sulfate for, 1,303,426
—, —, apparatus for, 1,494,674
—, —, barite for, 1,494,674
—, —, barium carbonate for, 1,310,384
—, —, barium chloride for, 1,146,491; 1,165,693
—, —, barium dioxide for, 1,216,338; 1,235,664
—, —, barium fluoride for, 1,244,359
—, —, barium hydroxide for, 1,191,106; 1,247,510
—, —, barium oxide for, 1,191,106
—, —, barium nitrate for, 1,303,426
—, —, barium silicate (di-basic), for, 1,463,037
—, —, —, (mono-basic), for, 1,463,037
—, —, —, (tri-basic) for, 1,463,037
—, —, barium sulfide for, 1,256,593; 1,468,867
—, —, calcium sulfate for, 1,146,491
—, —, carbon dioxide for, 1,235,664
—, —, carnotite for, 1,181,411; 1,194,669; 1,240,607
—, —, carnotite, yellow, for, 1,126,182
—, —, carnotite ore for, 1,126,182
—, —, cerium sulfate for, 1,244,359
—, —, coal for, 1,494,674
—, —, hydrochloric acid for, 1,126,182; 1,181,411; 1,194,669; 1,240,607
—, —, lanthanum sulfate for, 1,244,359
—, —, mine-water for, 1,310,384
—, —, neodymium sulfate for, 1,244,359
—, —, niter cake for, 1,194,669; 1,240,607; 1,468,867
—, —, nitric acid for, 1,181,411; 1,194,669; 1,240,607; 1,274,145
—, —, phosphoric acid for, 1,235,664
—, —, potassium hydroxide for, 1,274,145

Barium sulfate, mfr. of, praeseodymium sulfate for, 1,244,359
—, —, process for, 1,126,182; 1,129,029; 1,146,491; 1,181,411; 1,191,106; 1,194,669; 1,198,241; 1,216,338; 1,235,664; 1,240,607; 1,244,359; 1,247,510; 1,274,145; 1,457,934; 1,457,935; 1,468,867
—, —, radium ore for, 1,194,669
—, —, rare earth sulfate for, 1,244,359
—, —, salt cake for, 1,194,669
—, —, samarskite for, 1,181,411; 1,194,669; 1,240,607
—, —, sodium bisulfate for, 1,194,669; 1,240,607
—, —, sodium carbonate for, 1,126,182
—, —, sodium hydroxide for, 1,126,182
—, —, sodium sulfate for, 1,165,693; 1,247,510; 1,303,426; 1,468,867
—, —, sodium sulfide for, 1,468,867
—, —, sulfuric acid for, 1,126,182; 1,165,693; 1,181,411; 1,194,669; 1,216,338; 1,235,664; 1,240,607; 1,274,145
—, —, sulfurous acid for, 1,126,182; 1,240,607
—, —, yttrium sulfate for, 1,244,359
—, —, *see also Lithopone, mfr. of*
—, material coated with, 1,273,673
—, mending composition made with, 1,389,084
—, metal article, filling for joints of, made with, 1,223,458
—, metal casting, closing pores in, using, 1,214,630
—, metal polish contg., 1,266,713
—, mimeograph inks contg., properties of, 1,381,648
—, molded article made with, 1,295,356; 1,398,143
—, motion picture screen made with, 1,231,727
—, natural, purifying, 1,456,949
—, nickel, catalyst, made with, 1,172,062; 1,426,629; 1,482,740
—, oleic acid, hydrogenation of, catalyst for, made with, 1,222,660
—, oxygen made with, 1,133,392
—, paint made with, 1,157,525; 1,173,330; 1,202,847; 1,213,330; 1,216,980; 1,216,981; 1,286,916; 1,292,907; 1,292,908; 1,296,776; 1,369,252; 1,385,033; 1,385,034; 1,450,688
—, paint, bituminous, contg., 1,292,907; 1,292,908
—, —, flat, made with, 1,173,183
—, —, luminous, made with, 1,237,368
—, —, oil color, made with, 1,483,739
—, paint contg. pitch and, 1,355,102
—, paint pigment made with, 1,314,565; 1,430,881; 1,430,882; 1,460,699
—, paper made with, 1,161,696; 1,228,580
—, paper, artificial, made with, 1,260,448
—, —, coated, made with, 1,125,232; 1,147,996; 1,260,448; 1,265,357
—, —, —, dull finish, made with, 1,216,338
—, —, etchable coating for, made with, 1,265,357
—, —, glazed, made with, 1,209,222
—, —, lithographers, made with, 1,141,951
—, —, photographic, made with, 1,504,150
—, —, —, marking of, using, 1,210,400
—, paper coated with, 1,273,673
—, paper loaded with, dynamite cartridges of, 1,440,994
Barium sulfate, paper filler contg., 1,261,135
—, paper tube, waterproof, made with, 1,158,024
—, phenol aldehyde condensate made with, 1,146,388; 1,197,171; 1,255,500
—, phenol aldehyde condensate, composition of, contg., 1,259,472; 1,259,473
—, —, compound of and, 1,133,083
—, phenol aldehyde condensate printing plate contg., 1,398,142
—, phenol-furaldehyde condensate made with, 1,377,519
—, phonograph record of phenol aldehyde condensate contg., 1,398,144; 1,398,145
—, phosphoric acid made with, 1,511,929
—, pigment made with, 1,139,427; 1,155,462; Re-14,289; 1,157,525; 1,166,808; 1,169,253; 1,213,330; 1,216,980; 1,216,981; 1,220,973; 1,236,655; 1,240,405; 1,286,916; 1,399,506; 1,411,839; 1,427,826; 1,468,867; 1,504,672; 1,504,673
—, pigment of titanium compounds and, 1,396,924
—, pigment of titanium hydroxide and, 1,361,866; 1,361,867
—, pigment of titanium oxide and, 1,409,648
—, pipe mending composition made with, 1,389,084
—, plastic made with, 1,259,806; 1,295,356; 1,299,798; 1,389,084; 1,468,608; 1,468,609; 1,507,379
—, plastic composition contg., 1,446,039
—, polish, metal, contg., 1,471,466
—, porcelain made with, 1,507,379
—, potassium chloride made with, 1,194,344
—, potassium compound made with, 1,194,344
—, potassium sulfate made with, 1,194,344; 1,296,457
—, precipitating, 1,457,934; 1,457,935
—, precipitating in leather fibres, 1,334,216
—, preparing 1,460,699
—, —, sodium sulfate and barium sulfide for, 1,409,648
—, printing plate made with, 1,377,519
—, printing plate matrix made with, 1,398,142
—, printing sulfate made with, 1,398,142
—, purifying, 1,452,315
—, —, sodium chloride, nitrates and carbonates for, 1,388,285
—, quebracho tanning compound made with, 1,241,950
—, radio-active solutions made with, 1,236,213
—, radium compound made with, 1,154,230
—, radium compound, separation of from, process for, 1,154,230
—, radium sulfate, prevented from dissolving by use of, 1,236,213
—, —, separation from of, process for, 1,154,231
—, record phonograph, made with, 1,146,388; 1,230,816; 1,255,500; 1,295,356; 1,398,147; 1,440,097; 1,468,608; 1,468,609
—, —, sound reproducing, made with, 1,398,144
—, reducing, coal for, 1,399,500
—, rendering soluble of, process for, 1,471,751
—, reproduction composition made with, 1,386,995
—, resistance, electric, made with, 1,507,379

Barium sulfate, ricinoleic acid, hydrogenation of, catalyst for, made with, 1,222,660
—, rubber contg., 1,259,806
—, —, light sensitive properties of, 1,309,703
—, rubber, vulcanization of using, 1,468,867
—, rubber article made with, 1,478,576
—, rubber composition contg., 1,326,319
—, rubber mending composition made with, 1,389,084
—, rubber patch made with, 1,478,576
—, rubber product made with, 1,247,257
—, separating from iron oxide, 1,456,949
—, separation from carnotite, 1,292,341
—, shellac contg., 1,259,806
—, ship hull covering made with, 1,163,417
—, shoe, box toe for, made with, 1,196,276
—, sodium bicarbonate, treatment with of, 1,471,751
—, sodium hydroxide, treatment with of, 1,471,751
—, sodium silicate made with, 1,279,090
—, sodium sulfate for formation of from barium permanganate, 1,368,076
—, solvent for, sulfuric acid as, 1,154,231; 1,216,338
—, soya bean oil, hydrogenation of, catalyst for, made with, 1,222,660
—, spray contg., 1,384,304
—, stencil made with, 1,238,906; 1,289,725
—, stone, artificial, made with, 1,336,178
—, sulfur made with, 1,167,061; 1,240,571
—, sulfur dioxide for (1,112,721); Re-13,924; 1,133,392
—, sulfuric acid for purification of, 1,452,315
—, sulfurous acid, castings impervious to, made with, 1,214,630
—, sulfur trioxide made with (1,122,721); Re-13,924; 1,360,312
—, tanning compound made with, 1,241,950
—, teeth, artificial, mending composition for, made with, 1,389,084
—, tent material made with, 1,163,417
—, thyroid product mfr., formation of in, 1,392,768
—, tin article, filling for joints of, made with, 1,223,458
—, titanium complex precipitated upon, 1,402,256
—, titanium oxide pigment made with, 1,504,672; 1,504,673
—, titanium(ic) oxide pigment made with, 1,223,357; 1,223,358
—, titanium pigment contg., 1,343,441; 1,429,841
—, transposing with heat, compressed air and alkali acid salt, 1,364,804
—, treatment of, alkali bisulfate for, 1,364,804
—, —, alkali earth bisulfate for, 1,364,804
—, —, hydrochloric acid for, 1,364,804; 1,378,485
—, —, iron(ic) sulfate for, 1,364,804
—, —, nitric acid for, 1,364,804; 1,378,485
—, —, process for, 1,364,804; 1,378,485
—, —, sodium bisulfate for, 1,364,804
—, —, sodium bisulfite for, 1,364,804
—, —, sodium chloride for, 1,364,804
—, —, sodium pyrosulfate for, 1,364,804
—, —, sulfuric acid for, 1,364,804; 1,378,485
Barium sulfate, varnish, bituminous, contg., 1,292,907; 1,292,908
—, vulcanite substitute made with, 1,468,222
—, water, purification of, using, 1,199,098; 1,199,099
—, water gas made with, 1,506,323
—, waterproofing made with, 1,389,084
—, waterproofing process using, 1,453,764
—, wells sealed with, 1,421,706
—, white paint of coumaron resin and, mfr. of, 1,451,092
—, wood impregnated with, mfr. of, barium hydroxide for, 1,262,228
—, —, —, process for, 1,262,228
—, —, —, sulfuric acid for, 1,262,228
—, wood work mending composition made with, 1,389,084
—, zinc ore contg., barium hydroxide made with, 1,238,242
—, —, zinc sulfide made with, 1,238,242
—, *zinc sulfide, mixture of and, see Lithopone*
—, zinc sulfide pigment contg., 1,443,077
—, *see also Barite; Barytes; Blanc fixe; Heavy Spar; Pigment*
Barium sulfhydrate, barium carbonate made with, 1,247,510
—, barium nitrate made with, 1,285,824
—, fertilizer made with, 1,188,898
—, *see also Barium hydrosulfide*
Barium sulfide, ammonia recovered with, 1,378,593
—, ammonium bicarbonate, action of on, 1,378,595
—, ammonium chloride, action of on, 1,378,594; 1,378,595
—, antimony precipitated with, 1,434,693
—, antimony sulfide prepared with, 1,415,127
—, arsenic precipitated with, 1,434,693
—, barium benzenesulfonate from, 1,301,909
—, barium carbonate made with, 1,247,510; 1,284,739; 1,284,740; 1,378,595; 1,444,623
—, barium carbonate from by action of carbon dioxide, 1,346,287
—, barium chloride made with, 1,167,061; 1,378,594; 1,495,893
—, barium hydroxide made with, 1,238,242; 1,316,133; 1,460,180
—, barium nitrate made with, 1,285,824; 1,321,013; 1,427,441
—, barium phosphate made with, 1,213,330
—, barium sulfate made with, 1,256,593; 1,409,648; 1,457,934; 1,457,935; 1,468,867
—, battery, electric, contg., 1,316,760
—, cadmium precipitated with, 1,434,693
—, cellulose sulfite liquor treated with, 1,284,739; 1,284,740
—, ethyl alcohol made with, 1,284,739; 1,284,740
—, fertilizer made with, 1,188,898
—, fireproofing using, 1,346,287
—, fireproofing wood by, 1,346,287
—, formation of, process for, 1,183,172; 1,406,197; 1,455,963
—, germicide contg., 1,343,034
—, insecticide contg., 1,343,034

Barium sulfide, light transforming composition made with, 1,196,144
—, lithopone made with, 1,139,427; 1,140,354; 1,142,795; 1,256,593; 1,259,708; 1,260,811; 1,260,812; 1,301,909; 1,356,387; 1,395,811; 1,399,500; 1,411,645; 1,411,646; 1,411,647; 1,411,648; 1,414,793; 1,425,436; 1,425,437; 1,427,826; 1,446,637; 1,455,963; 1,474,766; 1,478,347; 1,480,807; 1,486,077; 1,494,674
—, lithopone alkalinity controlled with, 1,446,637
—, lithopone pigment made with, 1,356,387
—, luminous composition contg., 1,407,534
—, mfr. of, acetylene for, 1,495,187
—, —, apparatus for, 1,267,347; 1,495,187
—, —, barite for, (1,112,721); Re-13,924; 1,167,061; 1,495,187; 1,511,929
—, —, barium sulfate for, (1,112,721); Re-13,924; 1,167,061; 1,267,347; 1,284,739; 1,284,740; 1,444,623; 1,492,810; 1,495,187; 1,511,929
—, —, carbon for, (1,112,721); Re-13,924; 1,167,061; 1,495,187
—, —, coal for, 1,284,739; 1,284,740; 1,495,187; 1,511,929
—, —, coal tar pitch for, 1,267,347
—, —, coke for, 1,267,347
—, —, coke oven gas for, 1,495,187
—, —, hydrocarbon for, 1,495,187
—, —, hydrogen for, 1,495,187
—, —, methane for, 1,495,187
—, —, natural gas for, 1,495,187
—, —, nitrogen for, 1,495,187
—, —, oil gas for, 1,495,187
—, —, oil, mineral, for, 1,495,187
—, —, process for, (1,112,721); Re-13,924; 1,167,061; 1,267,347; 1,428,646; 1,443,077; 1,457,436; 1,492,810; 1,494,674; 1,495,187; 1,511,929
—, —, producer gas for, 1,495,187
—, —, tar for, 1,267,347; 1,495,187
—, —, tar distillate for, 1,495,187
—, —, water gas for, 1,495,187
—, motion picture screen made with, 1,166,569
—, nitric acid fixed by, 1,427,441
—, ocher substitute made with, 1,175,751
—, paint made with, 1,213,330; 1,405,109
—, paint pigment made with, 1,413,565
—, paper, rubber-latex, made with, 1,497,146
—, phenol made with, 1,301,909
—, phosphoric acid made with, 1,511,929
—, pigment made with, 1,175,751; 1,205,144; 1,213,330; 1,220,973; 1,234,260; 1,240,405; 1,399,506
—, preparation of, 1,434,693
—, purification of, calcium carbonate for, 1,256,593
—, —, carbonate for, 1,256,593
—, —, manganese dioxide for, 1,256,593
—, —, metal oxide for, 1,256,593
—, —, process for, 1,256,593
—, shingle, fireproofing of, using, 1,346,287
—, sodium chloride purified with, 1,475,563
—, sodium sulfide made with, 1,213,330
—, sulfite made with, 1,262,295
—, sulfur made with, 1,167,061; 1,262,295
—, sulfur and, disinfectant contg., 1,457,652
Barium sulfide, sulfur and, fungicide contg., 1,457,652
—, —, insecticide contg., 1,457,652
—, thionate made with, 1,262,295
—, thiosulfate made with, 1,262,295
—, titanium(ic) oxide pigment made with, 1,223,357; 1,223,358
—, wood, fireproofing of, using, 1,346,287
—, zinc sulfate removed from lithopone with, 1,260,811; 1,260,812
—, zinc sulfate solutions purified with, 1,427,826
—, zinc sulfide made with, 1,238,242; 1,347,435; 1,460,699
—, *see also Barium hydrosulfide*
Barium sulfite, barium acetyl-salicylate made with, 1,217,862
—, barium chloride made with, 1,495,893
—, formation of, 1,406,197
—, zinc sulfite made with, 1,198,241
Barium tartrate, ammonia producing catalyst made with, 1,473,543
—, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, catalyst made with, 1,473,543
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, electrolyte for, etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, nickel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, steel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Barium tetrasulfide, lithopone made with, 1,480,807
Barium thallium fluoride, lamp, incandescent, made with, 1,166,464
Barium thiocyanate, explosive contg., 1,350,465
Barium thiosilicate, light transforming composition made with, 1,196,144
Barium thiosulfate, preparation of, 1,406,197
—, rubber vulcanized with, 1,406,197
—, sulfur liberated from, 1,406,197
Barium thyroxin compound, properties of, 1,392,768
Barium titanate, electrode, arc lamp, made with, 1,205,377; 1,240,628
—, enamel, opaque, made with, 1,220,253
—, —, white, made with, 1,220,253
—, mfr. of, 1,436,164
—, ($Ba_2(TiO_2)_5$), electrode, arc lamp, made with, 1,164,728
Barium titanium pigment, mfr. of, 1,429,841
—, primer contg., 1,312,156
Barium trinitroresorcinate, mfr. of, barium chloride for, 1,308,393
—, primer contg., 1,312,156
—, priming charge contg., 1,308,393
Barium tungstate, alkali metal made with, 1,124,143
—, battery electrolyte contg., 1,416,738
—, catalyst, dehydrogenation, made with, 1,271,013
—, —, hydrogenation, made with, 1,271,013
—, catalyst promoter, 1,271,013

Barium tungstate, fluorescent substance, compound suitable for, contg., 1,511,874
—, formation of, 1,335,277
—, hydrochloric acid made with, 1,124,143
—, hydrogen made with, 1,124,143
—, potassium made with, 1,124,143
—, sodium made with, 1,124,143
—, tungsten made with, 1,124,143
—, tungsten oxide (WO_3), made with, 1,244,082
—, X-ray screen, compound suitable for, contg., 1,511,874
Barium uranium fluoride, electrode, arc-lamp, made with, 1,244,358
Barium vanadate, production of, barium chloride for, 1,165,693
—, —, sodium sulfate for, 1,165,693
—, —, sulfuric acid for, 1,165,693
Barium white, see Barium sulfate
Barium yellow, see Barium chromate
Barium zirconate, arc-welding composition made with, 1,467,825
—, formation of, 1,467,825
Bark, acetic acid made with, 1,178,223
—, acetone made with, 1,202,317
—, alcohols made with, 1,202,317
—, aldehydes made with, 1,202,317
—, ammonia made with, 1,202,317
—, artificial, mfr. of, gelatin for, 1,407,950
—, blasting cartridge, liquid-air, contg., 1,424,488
—, butyric acid made with, 1,178,223
—, calcium carbonate made with, 1,202,317
—, calcium hydroxide, treatment with of, 1,199,241
—, carbon, decolorizing, made with, 1,286,187
—, cardboard made with, 1,199,241
—, cellulose soda liquor, treatment of using, 1,137,779
—, cellulose sulfate liquor, treatment of, using, 1,137,779
—, cellulose sulfite liquor, treatment of, using, 1,137,779
—, cellulose sulfite liquor concentrated with, 1,315,889
—, cork recovery from, 1,455,762
—, ethyl alcohol made with, 1,202,317
—, fatty acid made with, 1,178,223
—, fertilizer made with, 1,128,446; 1,440,836
—, fiber board made with, 1,280,400
—, floor covering made with, 1,497,028
—, formic acid made with, 1,178,223
—, gold made with, 1,234,426
—, heat insulating material contg., 1,456,083
—, hydrocarbons made with, 1,202,317
—, imitation, composition for preparing, formula, paper, glue, umber, earth, clay, 1,413,002
—, —, *see also Molding composition, formula*
—, ketones made with, 1,202,317
—, methyl alcohol made with, 1,202,317
—, oxalic acid, treatment with of, 1,199,241
—, paper made with, 1,199,241
—, *paper, see Tea-tree bark*
—, propionic acid made with, 1,178,223
—, resins made with, 1,202,317
—, shoe polish made with, 1,189,445
—, silver made with, 1,234,426
Bark, soap, see Soap bark
—, sodium hydroxide, treatment with of, 1,199,241
—, sugar in, 1,315,889
—, tannin in, 1,315,889
—, *tea-tree, see Tea-tree bark*
—, *ti-tree, see Tea-tree bark*
—, turpentine made with, 1,202,317
—, wall board contg., 1,466,246
—, waste liquor from treatment of, acetone made with, 1,487,456
—, —, methyl alcohol made with, 1,487,456
—, —, oil made with, 1,487,456
—, —, sodium acetate made with, 1,487,456
—, white ash, ammonium nitrate and, explosive of, 1,444,594
—, —, explosive contg., 1,444,594
Bark extract, boiler feed water treatment compound contg., 1,260,987
Bark liquor, battery, primary, made with, 1,505,656
Bark tanning, see Tan bark liquor
Barley, acetic acid made with, 1,214,518
—, acetone made with, 1,427,595; 1,510,526
—, alcohol made with, 1,227,374
—, ale made with, 1,214,518; 1,237,724
—, animal food made with, 1,188,678
—, beer made with, 1,214,518; 1,237,724
—, beer, dealcoholized, made with, 1,271,269
—, beverage made with, 1,214,518; 1,237,724; 1,414,557
—, butter substitute made with, 1,403,122
—, butyl alcohol made with, 1,427,595; 1,510,526
—, cattle feed made with, 1,227,374; 1,477,964
—, china grass, desizing of, using, 1,421,613
—, coffee bean substitute made with, 1,400,161
—, coffee substitute made with, 1,189,125; 1,189,126; 1,189,131; 1,189,132; 1,257,451; 1,348,999; 1,414,557; 1,464,520
—, coffee substitute extract made with, 1,163,759; 1,165,415; 1,177,037; 1,177,038; 1,198,393; 1,199,387; 1,204,032; 1,204,358
— conditioning of, apparatus for, 1,185,622; 1,185,623
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—, —, steam for, 1,185,622; 1,185,623
—, cotton, de-sizing of using, 1,421,613
—, deflocculating material made with, 1,253,556
—, dextrinized, food made with, 1,125,692
—, diastase made with, 1,227,525; 1,361,238; 1,361,239
—, diastase, amyloytic, made with, 1,227,525
—, —, proteolytic, made with, 1,227,525
—, disinfecting of, amino-butyric acid, mercury derivative of, for, 1,485,021
—, —, calcium bicarbonate for, 1,485,021
—, —, calcium carbonate for, 1,485,021
—, —, calcium hydroxide for, 1,485,021
—, —, glycine, mercury derivative of, for, 1,485,021
—, —, mercury acetamide for, 1,485,021
—, —, mercury acylamides for, 1,485,021
—, —, mercury benzamide for, 1,485,021
—, —, mercury oleylamide for, 1,485,021
—, —, mercury phthalimide for, 1,485,021
—, —, mercury succinimide for, 1,485,021

Barley, disinfecting of, potassium bicarbonate for, 1,485,021
—, —, potassium carbonate for, 1,485,021
—, —, potassium hydroxide for, 1,485,021
—, —, process for, 1,485,021
—, —, sodium bicarbonate for, 1,485,021
—, —, sodium carbonate for, 1,485,021
—, —, sodium hydroxide for, 1,485,021
—, enzyme prepared with, 1,460,736
—, ethyl alcohol made with, 1,426,457; 1,510,526
—, fermenting, 1,357,647
—, flaking of, apparatus for, 1,212,205
—, —, process for, 1,212,205
—, —, steam for, 1,212,205
—, flour contg., 1,428,628
—, food made with, 1,125,692; 1,410,973
—, food, cattle, made with, 1,124,831
—, food product made with, 1,163,175; 1,211,126; 1,396,696; 1,420,661; 1,424,927; 1,479,418
—, fungi grown on, 1,391,219; 1,421,613
—, gelatinizing of, temperature of, 1,439,780
—, glucose made with, 1,227,374
—, graphite, deflocculated, made with, 1,253,556
—, ice cream made with, 1,134,777
—, lactic acid made with, 1,214,518
—, malted, bread made with, 1,226,347; 1,262,506
—, —, "grain wine" made with, 1,226,347
—, —, maltose made with, 1,214,160
—, —, yeast substitute made with, 1,226,347
—, malt extract made with, 1,391,159
—, malt substitute made with, 1,214,518
—, pearl, croppings, beer, coloring for, made with, 1,178,040
—, —, —, food product made with, 1,178,040
—, —, malted, producing, 1,400,160
—, —, mfr. of, 1,400,160
—, —, offal, beer wort made with, 1,178,039
—, —, —, food product made with, 1,178,039
—, *Pinus Silvestris*, match-head composition contg., 1,379,355
—, porter made with, 1,214,518
—, preserving of, process for, 1,165,220
—, —, sodium chloride for, 1,165,220
—, ramie, de-sizing of, using, 1,421,613
—, roasted, cattle feed made with, 1,267,081
—, —, dextrin made with, 1,267,081
—, —, ethyl alcohol made with, 1,267,081
—, —, maltose made with, 1,267,081
—, rubber, reclaiming of using, 1,189,282
—, sake made with, 1,214,518
—, silk, degumming of, using, 1,421,613
—, soya bean sauce made with, 1,332,448
—, sprouted, fertilizer contg., 1,309,723
—, starch made with, 1,156,801
—, tea substitute made with, 1,257,451
—, textile, de-sizing of, using, 1,421,618
—, toxine made with, 1,227,525
—, treatment of, apparatus for, 1,187,702; 1,187,703
—, —, process for, 1,187,702; 1,187,703
—, vinegar made with, 1,214,518
—, wood, artificial, made from fermented, 1,357,647
—, yeast made with, 1,475,471
—, yeast, pressed, made with, 1,176,528
Barley, yeast culture medium contg., 1,425,065
—, yeast food prepared with, 1,457,319; 1,457,320
—, yeast growing nutrient medium contg., 1,431,448
Barley-corn glumes, lupuline contained in, 1,517,650
—, lupuline, removal of from, alkali bicarbonate for, 1,517,650
—, —, —, alkali carbonate for, 1,517,650
—, —, —, alkali earth bicarbonate for, 1,517,650
—, —, —, alkali earth carbonate for, 1,517,650
—, —, —, alkali earth hydroxide for, 1,517,650
—, —, —, alkali earth oxide for, 1,517,650
—, —, —, alkali hydroxide for, 1,517,650
—, —, —, alkali oxide for, 1,517,650
—, —, —, ammonium hydroxide for, 1,517,650
—, —, —, potassium carbonate for, 1,517,650
—, —, —, process for, 1,517,650
—, —, —, sodium carbonate for, 1,517,650
—, testilupine in, 1,517,650
—, testilupine, removal of from, alkali bicarbonate for, 1,517,650
—, —, —, alkali carbonate for, 1,517,650
—, —, —, alkali earth bicarbonate for, 1,517,650
—, —, —, alkali earth carbonate for, 1,517,650
—, —, —, alkali earth hydroxide for, 1,517,650
—, —, —, alkali earth oxide for, 1,517,650
—, —, —, alkali hydroxide for, 1,517,650
—, —, —, alkali oxide for, 1,517,650
—, —, —, ammonium hydroxide for, 1,517,650
—, —, —, potassium carbonate for, 1,517,650
—, —, —, process for, 1,517,650
—, —, —, sodium carbonate for, 1,517,650
—, testin acid in, 1,517,650
—, testin acid, removal of from, alkali bicarbonate for, 1,517,650
—, —, —, alkali bicarbonate for, 1,517,650
—, —, —, alkali carbonate for, 1,517,650
—, —, —, alkali earth bicarbonate for, 1,517,650
—, —, —, alkali earth carbonate for, 1,517,650
—, —, —, alkali earth hydroxide for, 1,517,650
—, —, —, alkali earth oxide for, 1,517,650
—, —, —, alkali hydroxide for, 1,517,650
—, —, —, alkali oxide for, 1,517,650
—, —, —, ammonium hydroxide for, 1,517,650
—, —, —, potassium carbonate for, 1,517,650
—, —, —, process for, 1,517,650
—, —, —, sodium carbonate for, 1,517,650
Barley extract, food, breakfast, laxative contg., 1,261,057
Barley flour, bacteria culture media contg., 1,381,468; 1,381,469
—, butter substitute made with, 1,403,122
—, calories in, 1,252,029
—, food contg., 1,252,029
—, food product made with, 1,194,455; 1,194,456
—, sesame flour, mixture of and, 1,470,929
—, yeast product made with, 1,481,671
Barley germ, yeast food made with, 1,431,156
Barley husks, beer, coloring for, made with, 1,178,040
—, food product made with, 1,178,040
Barley malt, ale, dealcoholized, made with, 1,487,842
—, beer, dealcoholized, made with, 1,487,842
—, beverage made with, 1,164,287; 1,240,016

Barley malt, beverage, dealcoholized, made with, 1,146,171
—, bread made with, 1,355,128; 1,355,129
—, food product made with, 1,248,884
—, "Iromalt" made with, 1,146,171
—, maltose made with, 1,181,460
—, malt syrup made with, 1,181,460; 1,227,184
—, porter, dealcoholized, made with, 1,487,842
—, stout, dealcoholized, made with, 1,487,842
—, yeast culture medium contg., 1,386,361
Barley malt flour, beverage extract from, 1,338,231
—, dextrinized, beverage made with, 1,326,751
—, —, coffee substitute made with, 1,326,751
Barley meal, beer made with, 1,163,453
Barley seed, treatment of, apparatus for, 1,218,850
—, —, benzene for, 1,218,850
—, —, fertilizer for, 1,218,850
—, —, iron electrode for, 1,218,850
—, —, iron salts for, 1,218,850
—, —, magnesium chloride for, 1,218,850
—, —, petroleum for, 1,218,850
—, —, process for, 1,218,850
—, —, radio-active water for, 1,218,850
—, —, radium emanation for, 1,218,850
—, —, sodium chloride for, 1,218,850
Barley sprouts, bread made with, 1,355,128; 1,355,129
—, ethyl alcohol made with, 1,323,540
Barley starch, binder contg., 1,318,106
—, calcimine, binder for contg., 1,318,106
—, glue contg., 1,318,106
—, oil, emulsifier for contg., 1,318,106
—, size contg., 1,318,106
Barley straw, heat insulating material contg., 1,295,654
—, insulation, heat, made with, 1,225,443
—, paper made with, 1,236,723; 1,511,664
Barley water, food product made with, 1,215,363
Barm, fire lighter made with, 1,219,178
—, *see also Yeast*
Barnacles, paint for combating, 1,330,022
—, paint resistant to, 1,260,012
—, *paint resistant to growth of, see Paint, anti-fouling*
—, preventing adhesions of to ships, paint for, 1,397,103
—, removing from ships, chemical cartridge for, 1,430,773
Barnite, flotation of, 1,439,107
Baroque pearl powder, button made with, 1,177,803
—, pearl mixture made with, 1,177,803
Barrel, aluminum coated, mfr. of, paraffin for, 1,154,651
—, —, —, process for, 1,154,651
—, coating for, 1,291,696
—, lining for, acid in, 1,323,528
—, —, ammonium alum in, 1,323,528
—, —, glue in, 1,323,528
—, —, phenol in, 1,323,528
—, —, tanning substance in, 1,323,528
—, —, vinegar in, 1,323,528
—, oak, iron(ous) sulfate, treatment with of, 1,179,983
—, —, paraffin, treatment with of, 1,179,983
Barrel, sheet-metal, galvanizing, 1,346,943
—, wood, oil-proof, mfr. of, benzoic acid for, 1,311,595
—, —, —, —, borax for, 1,311,595
—, —, —, —, boric acid for, 1,311,595
—, —, —, —, calcium chloride for, 1,311,595
—, —, —, —, cellulose sulfite liquor for, 1,311,595
—, —, —, —, dextrin for, 1,311,595
—, —, —, —, glue for, 1,311,595
—, —, —, —, glycerol for, 1,311,595
—, —, —, —, glycerol substitute for, 1,311,595
—, —, —, —, molasses for, 1,311,595
—, —, —, —, paraffin for, 1,311,595
—, —, —, —, potassium acetate for, 1,311,595
—, —, —, —, process for, 1,311,595
—, —, —, —, sodium silicate for, 1,311,595
—, —, —, —, sugar for, 1,311,595
Barrier rings mfr. of, asbestos for, 1,309,757
—, —, casein for, 1,309,757
—, —, copal for, 1,309,757
—, —, fabric for, 1,309,757
—, —, fibrous material for, 1,309,757
—, —, paper for, 1,309,757
—, —, phenol aldehyde condensate for, 1,309,757
—, —, process for, 1,309,757
—, —, shellac for, 1,309,757
Bars, dipping, 1,366,152
—, metal, dipping, 1,366,152
—, —, quenching, 1,366,152
—, quenching, 1,366,152
Baryta, glass contg., 1,143,732
—, plastic made with, 1,142,989
—, stereotype matrix made with, 1,173,907
—, thermoplastic composition contg., 1,456,369
—, *see also Barium hydroxide; Barium monoxide; Barium oxide*
Baryta rock, see Barite
Baryta saltpeter, see Barium nitrate
Baryta white, see Barium sulfate
Baryta yellow, see Barium chromate
Barytes, barium compound made with, 1,428,646
—, buffing composition made with, 1,276,509; Re-14,568
—, composition contg., 1,276,507; Re-14,570; 1,276,508; Re-14,569
—, grinding composition made with, 1,276,509; Re-14,568
—, *heavy spar, see Barium sulfate*
—, *heavy white, see Barium sulfate*
—, lubricant made with, 1,276,509; Re-14,568
—, mine-ventilating tubing contg., 1,432,585
—, paint contg., 1,375,354; 1,375,355; 1,385,033; 1,385,034
—, paint pigment, 1,430,881; 1,430,882
—, phonograph record made with, 1,276,507; Re-14,570; 1,276,508; Re-14,569; 1,341,740
—, pigment made with, 1,288,473; 1,375,354; 1,375,355
—, polish made with, 1,276,509; Re-14,568
—, rubber contg., 1,413,557
—, rubber composition contg., 1,455,893
—, tire filler made with, 1,369,626
—, titanium complex pigment precipitated upon, 1,410,056
—, titanium complex precipitated upon, 1,402,256
—, titanium pigment made with, 1,396,924

Barytes, water paint contg., 1,423,256
—, *see also Barite, Barium sulfate*
Barytes white, see Barium sulfate
Barytic silicate, see Barium silicate
Barytite, see Barite
Barzilite, zirconium oxide made with, 1,460,766
Basalt, block, building, made with, 1,157,437
—, cement made with, 1,209,220
—, filament of, mfr. of, process for, 1,438,428
—, monolithic structures constructed of, 1,331,377
—, potassium chloride made with, 1,157,437
—, potassium compound made with, 1,157,437; 1,344,830
—, potassium sulfate made with, 1,157,437
—, road paving made with, 1,195,273
—, water, softening of, using, 1,202,557
Basaltic hornblende, see Augite
Basalt lava, see Lava, basaltic
Base, phenol aldehyde condensate made with, 1,146,045
Baseball, mfr. of, apparatus for, 1,517,022; 1,517,023
—, —, cork for, 1,517,022; 1,517,023
—, —, process for, 1,517,022; 1,517,023
—, —, rubber for, 1,517,022; 1,517,023
Baseball bat, mfr. of, alcohol for, 1,518,254
—, —, cement for, 1,518,254
—, —, cork for, 1,518,254
—, —, gypsum for, 1,518,254
—, —, magnesium chloride for, 1,518,254
—, —, paraffin for, 1,518,254
—, —, process for, 1,518,254
—, —, sawdust for, 1,518,254
Baseboards, mfr. of, paracoumarone for, 1,332,860
Base-exchange bodies, see Zeolite, artificial
Base exchange chromite silicate, see Zeolite, artificial
Base exchange silicate, see Zeolite; Zeolite, artificial
Base exchange substance, see Zeolite
Base exchange process, 1,385,124
Base oil, belt dressing made with, 1,492,408
—, leather, waterproofing of, using, 1,492,408
—, paper, Krafft, waterproofing of, using, 1,492,408
—, —, Manilla, waterproofing of, using, 1,492,408
—, —, waterproofing of, using, 1,492,408
—, waterproofing using, 1,492,408
—, *see also "Oil, base"*
Bases, amine, rubber vulcanizing accelerator contg., 1,343,224
—, catalyst, fat, edible, made with, 1,505,560
—, —, lard, artificial, made with, 1,505,560
—, —, margarine made with, 1,505,560
—, resinous, extracting from tar, 1,339,310
—, —, tar contg., 1,339,310
Basic dyestuff, see Dyestuff, basic
Basic(tri) formic ether, see Ethyl-o-formate
Basic nigrosines, see Nigrosines, basic
Basic open hearth furnace fix, mfr. of, blast furnace flue dust for, 1,175,933
—, —, cement, Portland, for, 1,175,933
—, —, iron fines for, 1,175,933
—, —, lime for, 1,175,933
—, —, process for, 1,175,933
Basic slag, see Slag, basic
Basilite, aniline dinitro-phenolate in, 1,500,066
—, sodium fluoride in, 1,500,066
—, wood impregnated using, 1,500,066
Basket, asbestos, see Asbestos basket
Basle blue, see Tolyldimethyl-amino-phenotolyl-imino-naphthazonium chloride, $C_{32}H_{29}N_4Cl$
Basle blue R, see Dimethyl-amino-tolyl-aminotolyl-pheno-naphthazonium chloride, $C_{32}H_{29}N_4Cl$
Basofor, see Barium sulfate
Bas relief, production of, apparatus for, 1,516,199
—, —, gelatin for, 1,516,199
—, —, photochemical process for, 1,516,199
—, —, plaster for, 1,516,199
—, —, potassium bichromate for, 1,516,199
—, —, process for, 1,516,199
—, —, wax for, 1,516,199
Bassinets, sericin soap substitute made with, 1,199,434
—, silk, degumming of, using, 1,199,433; 1,199,434
—, —, dyeing of, foam bath for, made with, 1,193,430
—, —, weighting of, using, 1,193,429; 1,207,800
—, *see also Silk waste; Silk-worm chrysalis*
Bass wood, battery, storage, separator for, made with, 1,200,682
—, flotation apparatus made with, 1,125,897
—, inner skin of, sound diaphragm made with, 1,466,427
—, nail extracted from, force required, 1,314,772
Bast, air, liquid, absorbent for, made with, 1,473,994
—, explosive made with, 1,473,994
—, felt made with, 1,295,148
—, felt, imitation, made with, 1,295,148
—, fur, imitation, made with, 1,295,148
—, leather, imitation, made with, 1,295,148
—, *lime tree, see Lime tree bast*
—, *linden tree, see Linden tree bast*
—, paper, Japanese, made with, 1,295,148
—, —, —, imitation, made with, 1,295,148
—, treatment of, ammonium chloride for, 1,162,191
—, —, apparatus for, 1,162,191
—, —, hydrofluoric acid for, 1,162,191
—, —, magnesium chloride for, 1,162,191
—, —, potassium hydroxide for, 1,162,191
—, —, process for, 1,162,191
—, —, sodium carbonate for, 1,162,191
—, —, sodium hydroxide for, 1,162,191
—, *willow tree, see Willow tree bast*
Bastard cedar seed, animal food made with, 1,188,678
Bast fiber, bleaching of, alkali dioxide for 1,247,757
—, —, alkali hydroxide for, 1,247,757
—, —, alkali perborate for, 1,247,757
—, —, alkali percarbonate for, 1,247,757
—, —, alkali persulfate for, 1,247,757
—, —, ammonium persulfate for, 1,247,757
—, —, castor oil, sulfonated, for, 1,247,757
—, —, fats for, 1,247,757
—, —, fatty acids for, 1,247,757
—, —, hydrogen dioxide for, 1,247,757

Bast fiber, bleaching of, hypochlorite for, 1,247,757
—, —, oils for, 1,247,757
—, —, oleic acid for, 1,247,757
—, —, potassium hydroxide for, 1,247,757
—, —, process for, 1,247,757
—, —, soap for, 1,247,757
—, —, soap, acid, for, 1,247,757
—, —, —, alkaline, for, 1,247,757
—, —, —, castor oil, for, 1,247,757
—, —, —, Marseilles, for, 1,247,757
—, —, —, neutral, for, 1,247,757
—, —, —, Turkey red oil, for, 1,247,757
—, —, sodium dioxide for, 1,247,757
—, —, sodium hydroxide for, 1,247,757
—, —, sodium hypochlorite for, 1,247,757
—, cellulose made with, 1,509,273
—, cellulose fibers made with, 1,509,273
—, cellulose nitrate made with, 1,509,273
—, flax plant contg., 1,125,347
—, paper made with, 1,509,273
—, retting of, alkali dioxide for, 1,247,757
—, —, alkali hydroxide for, 1,247,757
—, —, alkali perborate for, 1,247,757
—, —, alkali percarbonate for, 1,247,757
—, —, alkali persulfate for, 1,247,757
—, —, ammonium persulfate for, 1,247,757
—, —, castor oil, sulfonated, for, 1,247,757
—, —, fats for, 1,247,757
—, —, fatty acid for, 1,247,757
—, —, hydrogen dioxide for, 1,247,757
—, —, hypochlorite for, 1,247,757
—, —, oils for, 1,247,757
—, —, oleic acid for, 1,247,757
—, —, potassium hydroxide for, 1,247,757
—, —, process for, 1,247,757
—, —, soap for, 1,247,757
—, —, soap, acid, for, 1,247,757
—, —, —, alkaline, for, 1,247,757
—, —, —, castor oil, for, 1,247,757
—, —, —, Marseilles, for, 1,247,757
—, —, —, neutral, for, 1,247,757
—, —, —, Turkey red oil, for, 1,247,757
—, —, —, sodium dioxide for, 1,247,757
—, —, —, sodium hydroxide for, 1,247,757
—, —, sodium hypochlorite for, 1,247,757
—, retting process for, casein, putrefied, used in, 1,127,311
—, —, casein used in, 1,127,311
—, —, glycine used in, 1,127,311
—, —, leucine used in, 1,127,311
—, —, sodium carbonate used in, 1,127,311
—, —, sodium hydroxide used in, 1,127,311
Bast hat, see Hat, bast
Bastrop lignite, gases made with, 1,364,455
Bast wood fiber, mfr. of, apparatus for, 1,502,912
—, —, asp wood for, 1,502,912
—, —, glue for, 1,502,912
—, —, linden wood for, 1,502,912
—, —, process for, 1,502,912
Bat, carborundum, defects of, 1,296,715
—, mfr. of, carborundum for, 1,296,715
—, —, clay for, 1,296,715
—, —, clay grog for, 1,296,715
—, —, cork for, 1,213,370
—, —, glue, fish, for, 1,213,370
—, —, leather for, 1,213,370
Bat, mfr. of, process for, 1,213,370
—, —, woolen listing for, 1,213,370
Batchite, see Carbon, activated
Batchite (activated carbon) catalyst, 1,374,666
—, catalyst, 1,374,666
—, —, chlorination using, 1,380,067
—, catalyst in hydrocarbon chlorination, 1,432,761
—, composition of, 1,380,067
—, —, activated coal for, 1,380,067
—, *see also Carbon, activated*
Bath brush, mfr. of, balata for, 1,162,396
—, —, gutta percha for, 1,162,396
—, —, process for, 1,162,396
—, —, rubber for, 1,162,396
—, —, thread for, 1,162,396
Bathing cap, mfr. of, process for, 1,215,311
—, —, rubber for, 1,215,311
—, —, rubber sponge for, 1,215,311
Bathing compound, dried milk and sodium bicarbonate in, 1,360,093
Bath mitt, mfr. of, process for, 1,183,022; 1,183,023
—, —, rubber for, 1,183,022; 1,183,023
Bath mitten, mfr. of, carbon tetrachloride for, 1,208,064
—, —, cardboard for, 1,193,529
—, —, caoutchouc for, 1,208,064
—, —, "lace crepe" for, 1,208,064
—, —, "pale crepe" for, 1,208,064
—, —, process for, 1,193,529; 1,208,064; 1,209,763
—, —, rubber for, 1,193,529; 1,208,064; 1,209,763
—, —, rubber, crepe, for, 1,208,064
—, —, zinc for, 1,193,529
Bath room fixture, mfr. of, metal coated stone for, 1,258,282
Bath salts, Canada balsam in, 1,465,530
—, magnesium sulfate in, 1,465,530
—, mfr. of, calcium sulfate for, 1,189,653
—, —, barium radium chloride for, 1,189,653
—, —, process for, 1,189,653
—, —, radio-active compound for, 1,189,653
—, —, radium carbonate for, 1,189,653
—, —, radium chloride for, 1,189,653
—, —, radium compound for, 1,189,653
—, —, radium sulfate for, 1,189,653
—, —, sodium chloride for, 1,189,653
—, pine needle oil in, 1,465,530
—, pine oil in, 1,465,530
—, sodium bicarbonate in, 1,465,530
—, sodium carbonate in, 1,465,530
—, sodium chloride in, 1,465,530
—, sodium potassium tartrate in, 1,465,530
—, sodium thiosulfate in, 1,465,530
Bath sponge mfr. of, leather for, 1,488,332
—, —, "luffa" gourd for, 1,488,332
—, —, process for, 1,488,332
—, —, rubber for, 1,488,332
Bath tub, mfr. of, metal coated for, 1,258,282
Batter, food product made with, 1,492,603
Battery, alkaline electrolyte, mfr. of, antimony trioxide for, 1,303,453
—, —, —, cadmium oxide in, 1,303,453
—, —, —, cerium oxide in, 1,303,453
—, —, —, ferric oxide in, 1,303,453
—, —, —, lead monoxide in, 1,303,453
—, —, —, lead peroxide in, 1,303,453

Battery, alkaline electrolyte, mfr. of, red lead in, 1,303,453
—, —, —, sulfides in, 1,303,453
—, —, —, sulfur in, 1,303,453
—, ammonium chloride in, 1,464,838
—, ammonium hydroxide in electrolyte for, 1,285,054
—, cadmium electrode for, mfr. of, ammonium cadmium sulfate for, 1,509,138
—, —, —, ammonium nickel sulfate for, 1,509,138
—, —, —, cadmium alloy, nickel in, anode for, 1,509,138
—, —, —, cadmium anode for, 1,509,138
—, —, —, cadmium hydroxide for, 1,509,138
—, —, —, cadmium oxide for, 1,509,138
—, —, —, cadmium salt for, 1,509,138
—, —, —, copper ammonium salt for, 1,509,138
—, —, —, electrolyte process for, 1,509,138
—, —, —, iron cathode for, 1,509,138
—, —, —, nickel alloy, cadmium in, anode for, 1,509,138
—, —, —, nickel cathode for, 1,509,138
—, —, —, process for, 1,509,138
—, carbon electrode in, 1,464,838
—, carbon electrode for, mfr. of, coke for, 1,141,117
—, —, —, coke, petroleum, for, 1,141,117
—, —, —, process for, 1,141,117
—, container for, acid-proof, 1,369,783
—, —, asphaltum paint for acid-proofing, 1,369,783
—, —, linseed oil for acid-proofing, 1,369,783
—, —, tung oil for acid-proofing, 1,369,783
—, —, vaseline for acid-proofing, 1,369,783
—, copper electrode for, 1,289,030
—, —, ammonium hydroxide in electrolyte for, 1,285,054
—, copper oxide, electrode for, potassium hydroxide in electrolyte for, 1,285,054
—, —, sodium hydroxide in electrolyte for, 1,285,054
—, *deferred action type, see Battery, reserve type*
—, depolarizer for, copper oxide and sulfur as, 1,375,647; 1,415,860; 1,438,086
—, —, lead molybdate as, 1,281,372
—, —, sodium molybdate for, 1,281,372
—, —, sulfur in, 1,415,860
—, —, sulfur and copper oxide as, 1,375,647; 1,438,086
—, depolarizing mixture for, carbonaceous material in, 1,377,645
—, —, manganese dioxide in, 1,377,645
—, —, mixing, 1,377,645
—, dry, 1,395,281; 1,395,282; 1,402,185; 1,406,429; 1,408,525; 1,431,859
—, —, acetyl chloride in, 1,357,160
—, —, acetylene tetrachloride in, 1,357,160
—, —, agar-agar in, 1,316,597
—, —, ammonium chloride in, 1,316,597; 1,358,334; 1,358,350; 1,385,151; 1,434,469
—, —, ammonium chloride, recovery of from, 1,192,061
—, —, ammonium chloride as electrolyte for, 1,272,405; 1,272,406; 1,272,407; 1,272,952; 1,293,272; 1,370,054; 1,370,055; 1,370,056
Battery, dry, ammonium hydroxide in, 1,267,620; Re-14,929
—, —, aniline hydrochloride in, 1,357,160
—, —, anode for, mfr. of, process for, 1,376,034
—, —, asphalt for sealing, 1,328,027
—, —, benzal chloride in, 1,357,160
—, —, benzene sulfone chloride in, 1,357,160
—, —, benzotrichloride in, 1,357,160
—, —, benzoyl chloride in, 1,357,160
—, —, benzyl chloride in, 1,357,160
—, —, bibulous lining for, mfr. of, flour for, 1,273,000
—, —, —, —, process for, 1,273,000
—, —, bismuth plated zinc electrode for, 1,393,739
—, —, calcium acetate in, 1,434,469
—, —, calcium chloride in, 1,390,696; 1,434,469
—, —, carbon in, 1,292,254; 1,316,597; 1,328,027
—, —, carbon, activated, in, 1,423,231
—, —, carbon for, mfr. of, process for, 1,207,694
—, —, carbonaceous material in, 1,385,151
—, —, carbon electrode for, 1,272,405; 1,272,406; 1,272,407; 1,358,334; 1,358,350; 1,370,054; 1,370,055; 1,370,056; 1,380,034
—, —, —, mfr. of, process for, 1,234,799
—, —, carbon tetrachloride in, 1,357,160
—, —, celluloid cap for electrode for, 1,168,078
—, —, celluloid coating of, 1,331,764
—, —, celluloid lacquer used in construction of, 1,331,761; 1,331,762
—, —, celluloid used with, 1,407,386
—, —, celluloid used in construction of, 1,438,084; 1,438,085
—, —, cereal in, 1,316,597
—, —, cheese cloth in, 1,316,597
—, —, chloroform in, 1,357,160
—, —, chromic acid salts in, 1,331,877
—, —, coating interior of with paste, 1,375,202
—, —, connecting in series of, process for, 1,161,668
—, —, construction of, 1,328,027; 1,329,946; 1,331,761; 1,331,762; 1,331,763; 1,333,771; 1,342,068; 1,388,990; 1,390,696; 1,398,366; 1,408,140; 1,433,526
—, —, constructional details of, 1,267,620; Re-14,929; 1,342,001; 1,389,691
—, —, construction of reserve, 1,415,873
—, —, container for, mfr. of process for, 1,303,558
—, —, corn meal in, 1,316,597
—, —, corn starch in, 1,316,597
—, —, "deferred action," celluloid used in, 1,402,224
—, —, —, construction of, 1,402,224
—, —, —, mfr. of, 1,400,513
—, —, deferred action type, 1,407,035; 1,407,386; 1,416,704; 1,438,084; 1,438,085
—, —, —, construction of, 1,417,692
—, —, —, electrolyte for, 1,445,503
—, —, —, mfr. of, process for, 1,284,458
—, —, deflocculated material in, 1,296,700
—, —, depolarizer for, acetylene soot in, 1,123,843
—, —, —, ammonium manganite as, 1,173,965
—, —, —, ammonium phospho-molybdate in, 1,272,952; 1,281,372
—, —, —, calcium manganites for, 1,216,451

Battery, dry, depolarizer for, copper oxide in, 1,272,952
—, —, —, gas carbon in, 1,288,722
—, —, —, graphite in, 1,123,843; 1,272,405; 1,272,406; 1,272,407; 1,272,952
—, —, —, iron oxide in, 1,288,722
—, —, —, iron(ous) sulfide removed from, process for, 1,287,634
—, —, —, lead molybdate in, 1,272,952
—, —, —, manganese dioxide in, 1,123,843; 1,148,230; 1,173,965; 1,272,405; 1,272,406; 1,272,407; 1,272,952; 1,276,739; 1,288,722; 1,289,707
—, —, —, manganese dioxide sintered in oxygen as, 1,272,405
—, —, —, manganese(ous) manganate, $H_2Mn(MnO_4)_2$, as, 1,232,904
—, —, —, —, $MnO.MnO_2$, as, 1,232,904
—, —, —, —, $MnO.(MnO_3)_2$, as, 1,232,904
—, —, —, —, $(MnO)_2.MnO_3$, as, 1,232,904
—, —, —, manganese manganite for, 1,272,405; 1,272,406; 1,272,407
—, —, —, manganese perhydrol as, 1,148,230
—, —, —, manganese(ous) permanganate, $H_2Mn(Mn_2O_9)$, as, 1,232,904
—, —, —, —, $(MnO)_2.Mn_2O_7$, as, 1,232,904
—, —, —, —, $(MnO)_3.Mn_2O_7$, as, 1,232,904
—, —, —, manganese sulfate made with, 1,276,739
—, —, —, manganese trioxide in, 1,288,722
—, —, —, manganite for, 1,216,451; 1,272,407
—, —, —, mangano-manganites for, 1,216,451
—, —, —, mfr. of, air for, 1,221,062
—, —, —, —, alcohol, denatured, for, 1,484,780
—, —, —, —, ammonium chloride for, 1,484,782
—, —, —, —, ammonium chlorplatinate for, 1,288,722
—, —, —, —, ammonium hydroxide for, 1,288,722
—, —, —, —, ammonium persulfate for, 1,221,991
—, —, —, —, apparatus for, 1,218,772
—, —, —, —, asbestos for, 1,218,772; 1,484,885
—, —, —, —, barium hydroxide for, 1,232,904; 1,236,693
—, —, —, —, barium manganate for, 1,232,904
—, —, —, —, barium permanganate for, 1,232,904
—, —, —, —, benzene for, 1,484,780
—, —, —, —, carbon for, 1,170,819; 1,221,991; 1,322,001; 1,484,780; 1,484,782; 1,484,885
—, —, —, —, chlorine for, 1,218,772
—, —, —, —, coke for, 1,484,885
—, —, —, —, coke, petroleum, for, 1,484,782
—, —, —, —, cotton for, 1,484,885
—, —, —, —, electrolytic process for, 1,218,772
—, —, —, —, ethyl alcohol for, 1,484,780
—, —, —, —, glucose for, 1,169,943
—, —, —, —, graphite for, 1,166,414; 1,169,943; 1,170,819; 1,221,991; 1,232,873; 1,236,693; 1,322,001; 1,484,782
—, —, —, —, graphite anode for, 1,218,772
—, —, —, —, hydrochloric acid for, 1,221,991
—, —, —, —, hypochlorus acid for, 1,358,626
—, —, —, —, iron cathode for, 1,218,772
—, —, —, —, iron(ic) chloride for, 1,288,722
—, —, —, —, iron hydroxide for, 1,218,772
Battery, dry, depolarizer for, mfr. of, iron oxide for, 1,218,772
—, —, —, —, kerosene for, 1,218,772
—, —, —, —, linen for, 1,484,885
—, —, —, —, manganese(ous) carbonate for, 1,221,062; 1,322,001
—, —, —, —, manganese chloride for, 1,216,450
—, —, —, —, manganese(ous) chloride 1,216,450; 1,218,772; 1,232,904
—, —, —, —, manganese(ous) compound for, 1,358,626
—, —, —, —, manganese dioxide for, 1,169,943; 1,170,819; 1,221,991; 1,232,873; 1,236,693; 1,322,001; 1,484,780; 1,484,782; 1,484,885;
—, —, —, —, manganese dioxide, colloidal, for, 1,169,843
—, —, —, —, manganese heptaoxide for, 1,232,873
—, —, —, —, manganese hydroxide for, 1,221,061
—, —, —, —, manganese(ous) hydroxide for, 1,218,772; 1,221,061
—, —, —, —, manganese(ous) manganite for, 1,170,819; 1,236,693
—, —, —, —, manganese nitrate for, 1,170,819
—, —, —, —, manganese(ous) nitrate for, 1,221,061; 1,358,626
—, —, —, —, manganese(ous) oxide for, 1,236,693
—, —, —, —, manganese(ous) polymanganite for, 1,166,414
—, —, —, —, manganese(ous) potassium polymanganite for, 1,166,414
—, —, —, —, manganese salt for, 1,288,722
—, —, —, —, manganese(ous) salt for, 1,166,414; 1,221,061
—, —, —, —, manganese(ic) sulfate for, 1,228,359
—, —, —, —, manganese(ous) sulfate for, 1,216,450; 1,218,772; 1,228,359
—, —, —, —, manganese trioxide for, 1,232,873
—, —, —, —, manganites for, 1,170,819; 1,322,001
—, —, —, —, mangano-manganites for, 1,169,943; 1,232,873; 1,322,001
—, —, —, —, mercury(ic) chloride for, 1,221,991
—, —, —, —, mercury(ic) oxide for, 1,221,991
—, —, —, —, methyl alcohol for, 1,484,780
—, —, —, —, nitric acid for, 1,358,626
—, —, —, —, oxygen for, 1,221,062
—, —, —, —, potassium manganate for, 1,232,904
—, —, —, —, potassium manganite for, 1,166,414
—, —, —, —, potassium nitrate for, 1,232,904; 1,236,693
—, —, —, —, potassium permanganate for, 1,169,943; 1,216,450; 1,221,061; 1,221,062; 1,221,991; 1,228,359; 1,232,873; 1,232,904; 1,236,693
—, —, —, —, process for, 1,166,414; 1,169,943; 1,170,819; 1,216,450; 1,218,772; 1,221,061; 1,221,062; 1,221,991; 1,228,359; 1,232,873; 1,232,904; 1,236,693; 1,269,913; 1,269,914; 1,269,915; 1,269,916; 1,275,666; 1,287,634; 1,322,001; 1,358,626; 1,484,780; 1,484,782; 1,484,885
—, —, —, —, psilomelane for, 1,232,873

Battery, dry, depolarizer for, mfr. of, pyrolusite for, 1,169,943; 1,170,819; 1,221,991; 1,232,873; 1,484,782; 1,484,885
—, —, —, —, sodium carbonate for, 1,232,873
—, —, —, —, sodium chloride for, 1,218,772
—, —, —, —, sodium hydroxide for, 1,169,943; 1,218,772; 1,221,991
—, —, —, —, sodium hypochlorite for, 1,221,991; 1,358,626
—, —, —, —, sodium nitrate for, 1,236,693
—, —, —, —, sodium permanganate for, 1,221,062
—, —, —, —, sulfuric acid for, 1,228,359; 1,232,873
—, —, —, —, wood pulp for, 1,484,885
—, —, —, —, zinc chloride for, 1,484,782
—, —, —, —, *see also Manganese dioxide, mfr. of*
—, —, —, mercury oxide, yellow, as, 1,434,469
—, —, —, mercury(ic) oxide in, 1,288,722
—, —, —, molybdate in, 1,272,952; 1,281,372
—, —, —, molybdenum trioxide in, 1,272,952; 1,287,372
—, —, —, nickel in, 1,288,722
—, —, —, nickel oxide in, 1,288,722
—, —, —, palladium in, 1,288,722
—, —, —, platinum in, 1,288,722
—, —, —, psilomelane for, 1,272,406
—, —, —, pyrolusite in, 1,272,952
—, —, —, pyrolusite treated for, 1,259,099
—, —, —, regeneration of, acid, for, 1,192,061
—, —, —, —, chlorine for, 1,192,061
—, —, —, —, hydrochloric acid for, 1,192,061
—, —, —, —, potassium permanganate for, 1,192,061
—, —, —, —, process for, 1,192,061
—, —, —, —, sodium manganites as, 1,216,451
—, —, —, sodium molybdate in, 1,272,952
—, —, —, wad for, 1,272,406
—, —, —, Weldon mud as, 1,173,965
—, —, —, zinc manganite, $ZnMnO_3$, as, 1,173,965
—, —, —, —, $ZnH_8Mn_8O_{15}$, as, 1,173,965
—, —, —, *see also Manganese dioxide*
—, —, depolarizing agent for, manganese dioxide as, 1,358,626
—, —, depolarizing mixture for, formula, lampblack 100; manganese dioxide ore 594, sal ammoniac 79, water 80, 1,391,211
—, —, —, lampblack, calcined, in, 1,391,211
—, —, —, manganese dioxide in, 1,385,151
—, —, —, purified manganese dioxide in, 1,352,087
—, —, dextrin in, 1,316,597
—, —, electric connector for, mfr. of, brass gauze for, 1,193,764
—, —, —, —, copper gauze for, 1,193,764
—, —, —, —, process for, 1,193,764
—, —, electrode for, 1,370,054; 1,370,055; 1,370,056; 1,393,483
—, —, —, manganese dioxide for, 1,293,462
—, —, —, mfr. of, copper for, 1,267,620; Re-14,929
—, —, —, —, graphite for, 1,267,620; Re-14,929
—, —, —, —, manganese dioxide for, 1,267,620; Re-14,929
—, —, —, —, nitric acid for, 1,293,462
—, —, —, —, starch paste coated, mfr. of, 1,437,603
—, —, —, zinc cup for, 1,375,305; 1,375,306
—, —, electrode-protecting cap for, 1,168,078
Battery, dry, electrolyte for, aluminum chloride in, 1,140,826
—, —, —, aluminum salt in, 1,140,826
—, —, —, ammonium chloride in, 1,140,826; 1,292,254; 1,292,764
—, —, —, corn meal in, 1,292,764
—, —, —, cornstarch in, 1,292,764
—, —, —, formula, ammonium chloride, zinc chloride, corn starch, 1,397,183
—, —, —, gelatin in, 1,140,826
—, —, —, glycerol in, 1,140,826
—, —, —, mfr. of, 1,292,764
—, —, —, mercury(ic) chloride in, 1,140,826
—, —, —, mercury(ic) salt in, 1,140,826
—, —, —, potato starch in, 1,292,764
—, —, —, regeneration of, acid for, 1,192,061
—, —, —, —, chlorine for, 1,192,061
—, —, —, —, hydrochloric acid for, 1,192,061
—, —, —, —, process for, 1,192,061
—, —, —, rice flour in, 1,292,764
—, —, —, zinc chloride in, 1,140,826; 1,292,254; 1,292,764
—, —, element of, celluloid coated, 1,329,946
—, —, ethyl chloride in, 1,357,160
—, —, exhausted, recovery of values from, apparatus for, 1,366,082
—, —, flash-light made with, 1,200,366
—, —, gauze in, 1,316,597
—, —, graphite electrode for, 1,267,620; Re-14,929; 1,292,764; 1,370,054; 1,370,055; 1,370,056
—, —, ignition danger from, 1,418,730
—, —, ingredients for, 1,352,087
—, —, iron salts, action of on, 1,292,354
—, —, knock-down type, mfr. of, process for, 1,283,005
—, —, lead-coated zinc electrode for, 1,425,573
—, —, lining for, mfr. of, flour for, 1,281,421
—, —, —, —, flour, wheat, for, 1,314,594
—, —, —, —, mercury(ic) chloride for, 1,281,421; 1,314,594
—, —, —, —, paper pulp for, 1,314,594
—, —, —, —, process for, 1,281,421; 1,314,594
—, —, —, —, pulp board for, 1,314,594
—, —, —, —, strawboard for, 1,314,594
—, —, —, —, zinc chloride for, 1,314,594
—, —, magnesium chloride in, 1,316,597
—, —, magnesium oxide in, 1,316,597
—, —, manganese(ous) chloride in, 1,355,899
—, —, manganese dioxide for, 1,267,620; Re-14,929; 1,292,764; 1,316,597; 1,328,027; 1,358,334; 1,358,350; 1,370,054; 1,370,055; 1,370,056
—, —, —, regeneration of, process for, 1,305,252
—, —, manganese dioxide, recovery of from, 1,192,061
—, —, manganese dioxide as depolarizer for, 1,275,666; 1,293,272
—, —, —, mfr. of, process for, 1,269,913; 1,269,914; 1,269,915; 1,269,916
—, —, manganese dioxide recovered from, 1,359,640
—, —, mfr. of, 1,292,764; 1,380,034; 1,397,183; 1,430,726; 1,430,727; 1,437,603; 1,438,110; 1,464,838

Battery, dry, mfr. of, acetic acid for, 1,283,292; 1,303,844; 1,366,191
—, —, —, acetic acid, glacial, for, 1,366,298
—, —, —, acetyl chloride for, 1,357,160
—, —, —, acetylene soot for, 1,494,059
—, —, —, Acheson deflocculated graphite in, 1,296,700
—, —, —, agar-agar for, 1,295,475; 1,316,597; 1,481,178; 1,484,780
—, —, —, air for, 1,287,634
—, —, —, alcohol for, 1,484,779
—, —, —, alcohol, denatured, for, 1,484,780
—, —, —, alkali earth chloride for, 1,506,189
—, —, —, alkali earth salt for, 1,490,450
—, —, —, aluminum for, 1,366,095; 1,468,574
—, —, —, aluminum chloride for, 1,515,912
—, —, —, amide(?) for, 1,160,907
—, —, —, ammonia for, 1,484,779
—, —, —, ammonium chloride for, 1,123,843; 1,147,753; 1,149,665; 1,149,666; 1,160,907; 1,160,999; 1,162,449; 1,170,819; 1,174,798; 1,182,202; 1,196,225; 1,198,619; 1,201,709; 1,209,298; 1,211,363; 1,215,774; 1,221,061; 1,221,062; 1,224,376; 1,236,693; 1,284,458; 1,287,634; 1,295,475; 1,296,700; 1,305,485; 1,316,597; 1,355,899; 1,357,160; 1,358,334; 1,358,350; 1,361,499; 1,366,095; 1,366,298; 1,468,574; 1,480,533; 1,484,780; 1,484,782; 1,484,918; 1,487,728; 1,488,908; 1,497,316; 1,497,317; 1,500,027; 1,503,285; 1,506,189; 1,506,196; 1,511,271; 1,515,652; 1,515,912; 1,516,974; 1,518,637; 1,518,638; 1,521,295
—, —, —, ammonium hydroxide for, 1,267,620; Re-14,929; 1,500,007
—, —, —, ammonium persulfate for, 1,147,753
—, —, —, ammonium salt for, 1,160,999; 1,170,819; 1,178,927; 1,221,061; 1,221,062
—, —, —, ammonium sulfate for, 1,490,450
—, —, —, ammonium zinc chloride for, 1,481,178
—, —, —, amyl acetate for, 1,515,945
—, —, —, aniline hydrochloride for, 1,357,160
—, —, —, apparatus for, 1,198,619; 1,516,632
—, —, —, arrowroot starch for, 1,370,054; 1,370,055; 1,370,056
—, —, —, asbestos for, 1,182,202; 1,199,390; 1,214,836; 1,333,771; 1,484,885
—, —, —, asphalt for, 1,137,030; 1,140,826; 1,143,181; 1,196,225; 1,215,774; 1,225,306; 1,289,433; Re-15,846; 1,366,095; 1,402,224; 1,468,574; 1,500,477; 1,501,084
—, —, —, asphalt, Egyptian, for, 1,196,225
—, —, —, asphaltum for, 1,258,257
—, —, —, barium chloride for, 1,490,450; 1,506,189
—, —, —, barium manganite manganate for, 1,236,693
—, —, —, barium persulfate for, 1,147,753
—, —, —, benzene for, 1,196,225; 1,484,780
—, —, —, benzenesulfonyl chloride for, 1,357,160
—, —, —, benzoic acid for, 1,303,844
—, —, —, benzyl chloride for, 1,357,160
—, —, —, bismuth oxide for, 1,195,677
—, —, —, bitumen for, 1,303,843
—, —, —, bituminous material for, 1,366,191
—, —, —, brass for, 1,331,763; 1,366,095; 1,468,574; 1,516,632
Battery, dry, mfr. of, bronze for, 1,366,095; 1,468,574
—, —, —, calcium chloride for, 1,184,135; 1,488,908; 1,490,450; 1,497,316; 1,497,317
—, —, —, calcium hypochlorite for, 1,287,634
—, —, —, calcium persulfate for, 1,147,753
—, —, —, carbon for, 1,149,665; 1,157,531; 1,169,907; 1,160,999; 1,178,927; 1,184,818; 1,188,408; 1,198,619; 1,258,257; 1,287,634; 1,303,844; 1,305,250; 1,305,251; 1,305,252; 1,305,485; 1,316,597; 1,329,946; 1,366,095; 1,375,632; 1,402,224; 1,438,084; 1,438,085; 1,468,574; 1,480,533; 1,481,178; 1,484,780; 1,484,782; 1,484,885; 1,484,918; 1,487,728; 1,488,908; 1,490,450; 1,500,027; 1,503,285; 1,506,196; 1,511,271; 1,515,652; 1,515,912; 1,518,301; 1,518,637; 1,518,638; 1,521,295
—, —, —, carbon cathode for, 1,266,166; 1,284,458
—, —, —, carbon dust for, 1,182,202
—, —, —, carbon electrode for, 1,123,843; 1,140,826; 1,147,753; 1,149,665; 1,149,666; 1,157,531; 1,160,907; 1,160,999; 1,162,449; 1,170,819; 1,174,798; 1,178,927; 1,182,202; 1,184,135; 1,188,408; 1,193,764; 1,196,225; 1,198,619; 1,201,709; 1,203,279; 1,205,392; 1,211,363; 1,215,774; 1,221,061; 1,221,062; 1,224,376; 1,236,693; 1,242,656; 1,251,005; 1,276,714; 1,295,475; 1,303,286; 1,303,843; 1,303,844; 1,331,762; 1,358,334; 1,358,350; 1,361,499; 1,366,095; 1,366,191; 1,370,054; 1,370,055; 1,370,056; 1,375,632; 1,389,691; 1,402,185; 1,408,140; 1,438,084; 1,438,085; 1,468,574; 1,481,178; 1,484,779; 1,484,885; 1,484,926; 1,486,172; 1,487,728; 1,488,908; 1,490,450; 1,490,455; 1,493,435; 1,497,316; 1,497,317; 1,500,027; 1,500,477; 1,505,939; 1,506,189; 1,506,217; 1,511,271; 1,515,652; 1,516,632; 1,516,974
—, —, —, carbon flour for, 1,147,753
—, —, —, carbon tetrachloride for, 1,357,160; 1,484,779
—, —, —, cardboard for, 1,140,826; 1,182,202; 1,205,392; 1,215,774; 1,225,306; 1,303,286; 1,303,843; 1,303,844; 1,331,762; 1,333,771; 1,366,095; 1,375,632; 1,402,185; 1,484,885; 1,490,455; 1,500,027; 1,501,084
—, —, —, cardboard container for, 1,140,826
—, —, —, celluloid for, 1,303,843; 1,329,946; 1,331,761; 1,402,224; 1,438,084; 1,484,926; 1,506,181; 1,515,945
—, —, —, celluloid cement for, 1,331,761
—, —, —, "celluloid lacquer" for, 1,515,945
—, —, —, cellulose for, 1,303,843
—, —, —, cellulose nitrate for, 1,515,945
—, —, —, cement for, 1,366,095; 1,468,574
—, —, —, cereal for, 1,316,597; 1,484,780; 1,488,908; 1,511,271
—, —, —, cereal flour for, 1,515,652
—, —, —, cereal paste for, 1,481,178; 1,506,217
—, —, —, ceresin for, 1,289,432; Re-15,846
—, —, —, charcoal for, 1,366,095; 1,468,574
—, —, —, charcoal, activated, for, 1,505,939
—, —, —, cheese cloth for, 1,281,409; 1,283,005; 1,295,475; 1,316,597; 1,361,499; 1,375,632; 1,484,926; 1,490,450
—, —, —, chipboard for, 1205,392
—, —, —, chlorides for, 1,500,477

Battery, dry, mfr. of, chlorine for, 1,287,634
—, —, —, chloroform for, 1,357,160
—, —, —, *a*-chlor-toluene for, 1,357,160
—, —, —, chromic acid for, 1,276,714
—, —, —, chromium compound for, 1,276,714
—, —, —, cloth for, 1,162,449; 1,486,172; 1,515,945
—, —, —, coke for, 1,174,798; 1,184,818; 1,258,257; 1,355,899; 1,484,885; 1,521,295
—, —, —, coke, petroleum, for, 1,484,782
—, —, —, copper for, 1,366,095; 1,468,574
—, —, —, copper, steel coated with, for, 1,366,095
—, —, —, copper persulfate for, 1,147,753
—, —, —, cork for, 1,493,435; 1,497,316; 1,497,317
—, —, —, corn meal for, 1,316,597
—, —, —, corn starch for, 1,316,597; 1,361,499
—, —, —, corn starch paste for, 1,281,421
—, —, —, cotton for, 1,357,334; 1,358,350; 1,484,885
—, —, —, deflocculated metals in, 1,296,700
—, —, —, depolarizer for, 1,170,819
—, —, —, dextrin for, 1,316,597
—, —, —, dextrin, yellow, for, 1,500,027
—, —, —, *a.a*-dichlor-toluene for, 1,357,160
—, —, —, ebonite for, 1,201,709
—, —, —, enamel for, 1,366,095; 1,468,574
—, —, —, ether for, 1,484,779
—, —, —, ethyl alcohol for, 1,484,780
—, —, —, ethyl bromide for, 1,357,160
—, —, —, ethyl chloride for, 1,357,160
—, —, —, ethyl iodide for, 1,357,160
—, —, —, evacuated sealing cap for, 1,484,779
—, —, —, fabric for, 1,402,185; 1,484,926; 1,490,450
—, —, —, fabric, waterproof, for, 1,303,286
—, —, —, felt for, 1,201,709
—, —, —, fiber for, 1,137,030
—, —, —, flour for, 1,169,258; 1,209,298; 1,289,438; Re-15,846; 1,366,298; 1,402,224; 1,438,084; 1,438,085; 1,484,780; 1,487,728; 1,521,295
—, —, —, flour paste for, 1,276,714; 1,281,409; 1,281,421; 1,283,005; 1,295,475; 1,375,632
—, —, —, formulas for, 1,361,499
—, —, —, gauze for, 1,316,597; 1,506,196
—, —, —, gelatin for, 1,147,753; 1,166,871; 1,295,475; 1,481,178
—, —, —, glass for, 1,201,709
—, —, —, glucose for, 1,147,753; 1,169,258
—, —, —, glue for, 1,295,475; 1,366,095; 1,468,574; 1,503,285
—, —, —, glue, marine, for, 1,201,709
—, —, —, graphite for, 1,157,531; 1,160,999; 1,162,449; 1,178,927; 1,184,818; 1,188,408; 1,195,677; 1,198,619; 1,201,709; 1,211,363; 1,221,062; 1,236,693; 1,296,700; 1,303,843; 1,303,844; 1,305,250; 1,305,251; 1,305,252; 1,305,485; 1,355,899; 1,366,095; 1,366,298; 1,468,574; 1,480,533; 1,484,782; 1,488,908; 1,490,450; 1,494,059; 1,497,316; 1,497,317; 1,500,027; 1,503,285; 1,511,271; 1,516,632; 1,516,974; 1,518,637; 1,518,638; 1,521,295
—, —, —, graphite, impalpable, for, 1,162,449; 1,211,363

Battery, dry, mfr. of, graphite, (International Acheson Graphite Co.) for, 1,211,363
—, —, —, gum for, 1,366,095; 1,468,574
—, —, —, hydrochloric acid for, 1,287,634; 1,484,779
—, —, —, hydrogen dioxide for, 1,287,634
—, —, —, iodine for, 1,287,634
—, —, —, iron, tin coated, for, 1,215,774; 1,225,306
—, —, —, japan black baking, for, 1,196,225
—, —, —, lead, red, for, 1,500,027
—, —, —, linen for, 1,484,885
—, —, —, lithium persulfate for, 1,147,753
—, —, —, magnesium chloride for, 1,316,597
—, —, —, magnesium oxide for, 1,316,597
—, —, —, manganese carbonate for, 1,178,927
—, —, —, manganese(ous) chloride for, 1,355,899
—, —, —, manganese dioxide for, 1,147,753 1,149,665; 1,157,531; 1,160,907; 1,160,999; 1,162,449; 1,174,798; 1,182,202; 1,184,854; 1,188,408; 1,195,677; 1,201,709; 1,211,363; 1,221,061; 1,221,062; 1,224,376; 1,231,057; 1,258,257; 1,284,458; 1,287,634; 1,293,461; 1,293,462; 1,293,463; 1,295,475; 1,303,843; 1,303,844; 1,305,250; 1,305,251; 1,305,252; 1,305,485; 1,316,597; 1,329,946; 1,355,899; 1,358,334; 1,358,350; 1,361,499; 1,366,095; 1,366,298; 1,375,632; 1,402,224; 1,438,084; 1,438,085; 1,468,574; 1,480,533; 1,481,178; 1,484,780; 1,484,782; 1,484,885; 1,484,918; 1,487,728; 1,488,908; 1,490,450; 1,494,059; 1,497,316; 1,497,317; 1,500,477; 1,503,285; 1,506,189; 1,506,196; 1,511,271; 1,515,652; 1,515,912; 1,516,632; 1,516,974; 1,518,301; 1,518,637; 1,518,638; 1,521,295
—, —, —, —, preparing, 1,402,285
—, —, —, manganese dioxide, "recovered," for, 1,518,637
—, —, —, manganese hydroxide for, 1,511,271
—, —, —, manganese(ic) hydroxide for, 1,195,677
—, —, —, manganese nitrate for, 1,160,999
—, —, —, manganese oxide for, 1,160,907; 1,160,999; 1,178,927; 1,296,700
—, —, —, manganese oxides, recovered, for, 1,160,907
—, —, —, manganese persulfate for, 1,147,753
—, —, —, manganite manganate for, 1,236,693
—, —, —, mercury for, 1,174,798
—, —, —, mercury(ic) chloride for, 1,438,084; 1,487,728; 1,506,196; 1,511,271; 1,518,637; 1,518,638
—, —, —, mercury compound for, 1,488,908; 1,511,271; 1,518,637; 1,518,638
—, —, —, mercury oxide for, 1,195,677
—, —, —, mercury(ic) oxide for, 1,195,677
—, —, —, metal for, 1,303,286, 1,366,095; 1,468,574
—, —, —, metal bichromate for, 1,276,714
—, —, —, methyl alcohol for, 1,484,780
—, —, —, muslin for, 1,166,871
—, —, —, nitric acid for, 1,287,634
—, —, —, paint for, 1,196,225; 1,515,945
—, —, —, paint, asphalt, for, 1,196,225

Battery, dry, mfr. of, paint, roofing for, 1,196,225
—, —, —, paper for, 1,137,030; 1,149,665; 1,174,798; 1,188,408; 1,196,999; 1,205,392; 1,225,306; 1,251,005; 1,258,257; 1,276,714; 1,283,005; 1,295,475; 1,303,843; 1,303,844; 1,329,946; 1,331,761; 1,331,762; 1,355,899; 1,366,095; 1,366,191; 1,370,054; 1,370,055; 1,370,056; 1,389,691; 1,402,185; 1,484,885; 1,484,918; 1,486,172; 1,505,939; 1,506,181; 1,515,945
—, —, —, paper, absorbent, for, 1,157,531
—, —, —, —, blotting, for, 1,147,753; 1,149,666; 1,166,871; 1,174,798; 1,214,836; 1,259,485; 1,281,409; 1,486,172
—, —, —, —, paraffined, for, 1,188,408; 1,199,390; 1,303,286; 1,361,499; 1,370,056; 1,402,185; 1,487,728; 1,515,652; 1,521,295
—, —, —, —, pitch coated, for, 1,205,392
—, —, —, —, tar, for, 1,205,392; 1,515,652
—, —, —, —, waterproof, for, 1,205,392; 1,303,286
—, —, —, papier mache for, 1,303,843
—, —, —, paraffin for, 1,140,826; 1,157,531; 1,160,907; 1,162,449; 1,174,798; 1,188,408; 1,196,225; 1,199,390; 1,211,363; 1,215,774; 1,258,257; 1,267,620; Re-14,929; 1,289,433; Re-15,846; 1,303,286; 1,316,597; 1,331,762; 1,366,095; 1,370,054; 1,370,055; 1,370,056; 1,375,632; 1,389,691; 1,408,140; 1,438,084; 1,468,574; 1,486,172; 1,500,027; 1,501,084; 1,506,181; 1,515,945; 1,518,301
—, —, —, paraformaldehyde for, 1,355,899
—, —, —, paraldehyde for, 1,355,899
—, —, —, paste, flour for, 1,303,286; 1,375,632
—, —, —, paste board for, 1,160,907; 1,215,774; 1,242,656; 1,408,140
—, —, —, paste board carton for, 1,500,477
—, —, —, persulfate for, 1,147,753
—, —, —, petroleum coke for, 1,184,818; 1,480,533
—, —, —, petroleum compound for, 1,500,477
—, —, —, phenol for, 1,283,292
—, —, —, phenol aldehyde condensate for, 1,174,798; 1,488,908
—, —, —, pitch for, 1,143,181; 1,162,449; 1,188,408; 1,196,225; 1,211,363; 1,215,774; 1,224,376; 1,225,306; 1,242,656; 1,251,005; 1,289,433; Re-15,846; 1,295,475; 1,303,286; 1,331,761; 1,331,762; 1,358,334; 1,358,350; 1,366,095; 1,375,632; 1,389,691; 1,402,224; 1,438,084; 1,468,574; 1,484,918; 1,490,448; 1,490,455; 1,503,285; 1,506,189; 1,506,196; 1,515,652; 1,515,945; 1,516,632
—, —, —, pitch, hard, for, 1,196,999
—, —, —, —, soft, for, 1,196,999
—, —, —, plaster of Paris for, 1,316,597
—, —, —, potassium bichromate for, 1,276,714
—, —, —, potassium chloride for, 1,160,999; 1,170,819
—, —, —, potassium chromate for, 1,276,714
—, —, —, potassium hydroxide for, 1,195,677
—, —, —, potassium permanganate for, 1,160,907; 1,287,634; 1,355,899
—, —, —, potassium persulfate for, 1,147,753
Battery, dry, mfr. of, potato starch for, 1,370,056; 1,497,316; 1,497,317
—, —, —, process for, 1,137,030; 1,140,826; 1,143,181; 1,147,753; 1,149,655; 1,149,666; 1,157,531; 1,160,907; 1,160,999; 1,161,668; 1,162,449; 1,166,871; 1,169,258; 1,170,819; 1,174,798; 1,178,927; 1,182,202; 1,184,135; 1,184,818; 1,188,408; 1,193,764; 1,195,677; 1,196,225; 1,196,999; 1,198,619; 1,199,390; 1,201,709; 1,203,279; 1,205,392; 1,209,298; 1,211,363; 1,214,836; 1,215,774; 1,221,061; 1,221,062; 1,224,376; 1,225,306; 1,231,057; 1,236,693; 1,242,656; 1,251,005; 1,258,257; 1,259,485; 1,266,166; 1,267,620; Re-14,929; 1,273,000; 1,276,714; 1,281,409; 1,281,421; 1,283,005; 1,284,458; 1,288,722; 1,289,433; Re-15,846; 1,295,475; 1,303,286; 1,303,558; 1,303,843; 1,303,844; 1,329,946; 1,331,761; 1,331,762; 1,331,763; 1,333,771; 1,355,899; 1,357,160; 1,358,334; 1,358,350; 1,361,499; 1,366,095; 1,366,191; 1,366,298; 1,370,054; 1,370,055; 1,370,056; 1,375,632; 1,389,691; 1,402,185; 1,402,224; 1,408,140; 1,438,084; 1,438,085; 1,468,574; 1,480,533; 1,484,779; 1,484,780; 1,484,782; 1,484,885; 1,484,918; 1,484,926; 1,486,172; 1,487,728; 1,488,908; 1,490,448; 1,490,450; 1,490,455; 1,492,435; 1,493,435; 1,497,316; 1,497,317; 1,500,027; 1,500,477; 1,501,084; 1,503,285; 1,505,939; 1,506,181; 1,506,189; 1,506,196; 1,506,217; 1,511,271; 1,515,652; 1,515,912; 1,515,945; 1,516,632; 1,516,974; 1,518,301; 1,518,637; 1,518,638; 1,521,295
—, —, —, process for adding electrolyte to, 1,198,619
—, —, —, pulpboard for, 1,137,030; 1,251,005; 1,281,409; 1,289,433; Re-15,846; 1,303,286; 1,468,574; 1,484,926; 1,490,448; 1,500,477; 1,506,217
—, —, —, pulpboard, paraffined, for, 1,518,301
—, —, —, pumice for, 1,201,709
—, —, —, pyrolusite for, 1,160,999; 1,162,449; 1,178,927; 1,211,363; 1,221,061; 1,221,062; 1,287,634; 1,295,475; 1,357,160; 1,480,533; 1,484,782; 1,484,885; 1,506,189; 1,521,295
—, —, —, pyrolusite, Philipsburg, for, 1,480,533
—, —, —, resin for, 1,140,826
—, —, —, rice flour for, 1,370,056
—, —, —, rice paper for, 1,283,005
—, —, —, rosin for, 1,500,027; 1,500,477
—, —, —, rubber for, 1,182,202; 1,333,771; 1,366,298; 1,493,435; 1,497,316; 1,497,317
—, —, —, salicylic acid for, 1,283,292; 1,303,844
—, —, —, sand for, 1,137,030; 1,205,392; 1,224,376; 1,251,005; 1,284,458; 1,295,475; 1,303,286; 1,316,597; 1,484,926
—, —, —, sawdust for, 1,137,030; 1,140,826
—, —, —, scale wax for, 1,196,999
—, —, —, sealing wax for, 1,157,531; 1,182,202; 1,196,225; 1,295,475; 1,224,376; 1,333,771
—, —, —, shellac for, 1,140,826; 1,366,095; 1,468,574; 1,515,945
—, —, —, silicic acid, colloidal, for, 1,295,475
—, —, —, silver oxide for, 1,195,677
—, —, —, sodium bichromate for, 1,276,714
—, —, —, sodium borate for, 1,316,597
—, —, —, sodium chromate for, 1,276,714

Battery, dry, mfr. of, sodium hydroxide for, 1,160,907; 1,195,677
—, —, —, sodium hypochlorite for, 1,355,899
—, —, —, sodium persulfate for, 1,147,753
—, —, —, starch for, 1,147,753; 1,162,449; 1,209,298; 1,295,475; 1,316,597; 1,358,334; 1,358,350; 1,361,499; 1,366,298; 1,370,054; 1,370,055; 1,370,056; 1,402,224; 1,438,084; 1,438,085; 1,516,974; 1,521,295
—, —, —, starch, cooked, for, 1,281,409
—, —, —, —, uncooked, for, 1,281,409
—, —, —, starch paste for, 1,211,363; 1,224,376
—, —, —, steel cold rolled, for, 1,366,095; 1,468,574
—, —, —, —, copper coated, for, 1,366,095
—, —, —, straw for, 1,196,999
—, —, —, strawboard for, 1,281,409; 1,506,196; 1,518,301
—, —, —, strontium persulfate for, 1,147,753
—, —, —, succinic acid for, 1,303,844
—, —, —, sulfate for, 1,490,450
—, —, —, sulfuric acid for, 1,160,907; 1,287,634; 1,305,485
—, —, —, syrup for, 1,169,258
—, —, —, talc for, 1,500,477
—, —, —, tar for, 1,331,761; 1,331,762; 1,486,172
—, —, —, tartaric acid for, 1,303,844
—, —, —, *s*-tetrachlor-ethane for, 1,357,160
—, —, —, tin for, 1,215,774
—, —, —, tin, iron coated with, for, 1,215,774; 1,225,306
—, —, —, trichlorhydrin for, 1,357,160
—, —, —, trichlorphenol for, 1,357,160
—, —, —, *a.a.a*-trichlor-toluene for, 1,357,160
—, —, —, trioxymethylene for, 1,355,899
—, —, —, varnish for, 1,140,826; 1,199,390; 1,506,181; 1,515,945
—, —, —, varnish, waterproof, for, 1,366,095; 1,468,574
—, —, —, vinegar for, 1,283,292; 1,305,485
—, —, —, vulcanite for, 1,149,666
—, —, —, wax for, 1,147,753; 1,160,907; 1,201,709; 1,203,279; 1,284,458; 1,366,095; 1,389,691; 1,468,574; 1,515,945
—, —, —, wheat flour for, 1,147,753; 1,488,908; 1,506,196; 1,511,271; 1,518,637; 1,518,638; 1,521,295
—, —, —, wood for, 1,501,084
—, —, —, wood cylinders for, 1,403,409; 1,403,410
—, —, —, wood pulp for, 1,484,885
—, —, —, zinc for, 1,169,258; 1,258,257; 1,283,005; 1,287,634; 1,316,597; 1,366,095; 1,468,574; 1,518,301
—, —, —, zinc ammonium chloride for, 1,305,250; 1,305,251; 1,305,252
—, —, —, zinc anode for, 1,266,166; 1,284,458
—, —, —, zinc bichromate for, 1,276,714
—, —, —, zinc can for, 1,143,181; 1,157,531; 1,162,449; 1,289,438; Re-15,846
—, —, —, zinc chloride for, 1,147,753; 1,149,665; 1,160,907; 1,160,999; 1,162,449; 1,170,819; 1,196,225; 1,198,619; 1,201,709; 1,209,298; 1,211,363; 1,224,376; 1,287,634; 1,289,433; Re-15,846; 1,295,475; 1,316,597; 1,355,899; 1,358,334; 1,358,350; 1,361,499; 1,366,298; 1,484,780; 1,484,782; 1,484,918; 1,487,728;
Battery, dry, mfr., zinc chloride for (cont'd) 1,488,908; 1,497,316; 1,497,317; 1,506,189; 1,506,196; 1,511,271; 1,515,652; 1,515,912; 1,516,974; 1,518,301; 1,518,637; 1,518,638; 1,521,295
—, —, —, zinc cup for, 1,166,871
—, —, —, zinc electrode for, 1,123,843; 1,140,826; 1,147,753; 1,149,665; 1,149,666; 1,160,999; 1,170,819; 1,174,798; 1,178,927; 1,182,202; 1,184,135; 1,188,408; 1,193,764; 1,195,677; 1,196,225; 1,196,999; 1,198,619; 1,199,390; 1,201,709; 1,203,279; 1,205,392; 1,209,298; 1,211,363; 1,214,836; 1,215,774; 1,221,061; 1,221,062; 1,224,376; 1,225,306; 1,231,057; 1,236,693; 1,242,656; 1,251,005; 1,267,620; Re-14,929; 1,276,714; 1,295,475; 1,303,286; 1,303,843; 1,303,844; 1,329,946; 1,331,761; 1,331,762; 1,331,763; 1,333,771; 1,355,899; 1,358,334; 1,358,350; 1,366,095; 1,366,191; 1,366,298; 1,370,054; 1,370,055; 1,370,056; 1,375,632; 1,402,185; 1,402,224; 1,408,140; 1,438,084; 1,438,085; 1,468,574; 1,481,178; 1,484,779; 1,484,926; 1,486,172; 1,487,728; 1,488,908; 1,490,448; 1,490,450; 1,490,455; 1,493,435; 1,497,316; 1,497,317; 1,500,027; 1,500,477; 1,503,285; 1,505,939; 1,506,181; 1,506,189; 1,506,196; 1,506,217; 1,511,271; 1,515,652; 1,515,912; 1,515,945; 1,516,632; 1,516,974; 1,518,301; 1,518,638; 1,521,295
—, —, —, zinc foil for, 1,486,172
—, —, —, zinc oxide for, 1,316,597
—, —, —, zinc sulfate for, 1,490,450
—, —, material for, purifying, 1,343,585
—, —, oil protected zinc cup for, making, 1,352,834
—, —, organic materials for combating developed basicity of, 1,357,160
—, —, paper, waxed, cap for electrode for, 1,168,078
—, —, paper cap for electrode for, 1,168,078
—, —, paraffin in, 1,316,597
—, —, phenolphthalein paper used to indicate approximate strength of, 1,497,388
—, —, pitch used in construction of, 1,331,761; 1,331,762
—, —, plaster of Paris in, 1,316,597
—, —, potassium bichromate in, 1,331,877
—, —, preserving of, asphaltum for, 1,368,479
—, —, —, potassium bichromate for, 1,331,877
—, —, —, shellac for, 1,368,479
—, —, pyrolusite in, 1,292,254; 1,292,764; 1,370,054; 1,370,055; 1,370,056
—, —, reclaiming material from, 1,374,003
—, —, *recharge, see Battery, storage,*
—, —, reconstructed, 1,355,899
—, —, regeneration of, ammonium chloride for, 1,311,559
—, —, —, dye, aniline, for, 1,311,559
—, —, —, oxalic acid for, 1,311,559
—, —, —, sodium chloride for, 1,311,559
—, —, reserve type, 1,432,025
—, —, —, electrolyte for, 1,437,553
—, —, retort carbon for, 1,292,764
—, —, rubber cap for electrode for, 1,168,078
—, —, sand in, 1,316,597
—, —, sodium borate in, 1,316,597

see errata V. 3, p. 1003

Battery, dry, spent, depolarizing compound from, manganese salts recovered from, 1,412,986
—, —, —, treatment of, 1,412,986
—, —, starch in, 1,316,597; 1,358,334; 1,358,350; 1,370,054; 1,370,055; 1,370,056
—, —, storage, 1,371,746
—, —, storing of, alcohol for, 1,508,371
—, —, —, apparatus for, 1,508,371
—, —, —, carbon tetrachloride for, 1,508,371
—, —, —, process for, 1,508,371
—, —, sulfide, action of on, 1,292,254
—, —, tar used in construction of, 1,331,761; 1,331,762
—, —, tetrachlorethane in, 1,357,160
—, —, trichlorhydrin in, 1,357,160
—, —, trichlorphenol in, 1,357,160
—, —, uncooked flour paste in, 1,434,303
—, —, zinc in, 1,316,597; 1,358,334; 1,358,350
—, —, zinc can for, mfr. of, beeswax for, 1,477,109
—, —, —, —, bronze powder for, 1,477,109
—, —, —, —, electrolytic process for, 1,477,109
—, —, —, —, graphite for, 1,477,109
—, —, —, —, mercury(ic) chloride for, 1,472,359
—, —, —, —, process for, 1,472,359; 1,477,109
—, —, —, —, solder for, 1,472,359
—, —, —, —, turpentine for, 1,477,109
—, —, zinc can electrode for, 1,292,254
—, —, zinc chloride in, 1,316,597; 1,358,334; 1,358,350; 1,385,151; 1,434,469
—, —, zinc chloride, recovery of from, 1,192,061
—, —, zinc chloride in electrolyte for, 1,272,952; 1,370,054; 1,370,055; 1,370,056
—, —, zinc corrosion in, 1,292,254
—, —, —, effect of iron salts, 1,292,254
—, —, zinc cups for, mfr. of, electrolytic process for, 1,419,839
—, —, zinc electrode for, 1,267,620; Re-14,929; 1,272,405; 1,272,406; 1,272,407; 1,292,764; 1,293,272; 1,403,410
—, —, —, mfr. of, amyl acetate for, 1,515,945
—, —, —, —, celluloid for, 1,515,945
—, —, —, —, "celluloid lacquer" for, 1,515,945
—, —, —, —, cellulose nitrate for, 1,515,945
—, —, —, —, paint for, 1,515,945
—, —, —, —, paraffin for, 1,515,945
—, —, —, —, process for, 1,375,305; 1,375,306; 1,515,945
—, —, —, —, shellac for, 1,515,945
—, —, —, —, varnish for, 1,515,945
—, —, —, —, protecting of, process for, 1,376,034
—, —, zinc oxide in, 1,316,597
—, —, *see also Battery, primary; Dry cell; Manganese dioxide; Manganese oxide; Pyrolusite*
—, dry cell, mfr. of, 1,292,254; 1,296,700
—, electric, 1,401,676
—, —, alkali earth hydrosulfide in, 1,316,760
—, —, alkali earth polysulfide in, 1,316,760
—, —, alkali earth sulfide in, 1,316,760
—, —, alkali hydrosulfide in, 1,316,760
—, —, alkali polysulfide in, 1,316,760
—, —, alkali sulfide in, 1,316,760
—, —, alkaline, 1,369,813
—, —, allyl thiocarbamide in, 1,316,760
—, —, allyl thiocarbimide in, 1,316,760
—, —, aluminum sulfide in, 1,316,760
—, —, ammonium-copper sulfide in, 1,316,760
Battery, dry cell, ammonium hydrosulfide in, 1,316,760
—, —, ammonium ortho-thioantimonite in, 1,316,760
—, —, ammonium polysulfide in, 1,316,760
—, —, ammonium sulfide in, 1,316,760
—, —, ammonium thioantimonite in, 1,316,760
—, —, ammonium thioarsenate in, 1,316,760
—, —, ammonium thioarsenite in, 1,316,760
—, —, ammonium thiostannate in, 1,316,760
—, —, anode for, zinc as, 1,134,093
—, —, anti-freezing electrolyte for, 1,134,093
—, —, antimony(ous) disulfide in, 1,316,760
—, —, antimony(ic) sulfide in, 1,316,760
—, —, arsenic disulfide in, 1,316,760
—, —, arsenic pentasulfide in, 1,316,760
—, —, arsenous sulfide in, 1,316,760
—, —, barium sulfide in, 1,316,760
—, —, bismuth sulfide in, 1,316,760
—, —, boron trisulfide in, 1,316,760
—, —, cadmium sulfide in, 1,316,760
—, —, calcium sulfide in, 1,316,760
—, —, carbon bisulfide in, 1,316,760
—, —, cathode for, mfr. of, carbon for, 1,134,093
—, —, —, —, chromium for, 1,134,093
—, —, —, —, chromium hydroxide for, 1,134,093
—, —, —, —, chromium oxide for, 1,134,093
—, —, —, —, copper for, 1,134,093
—, —, —, —, copper, amalgamated, for, 1,134,093
—, —, —, —, copper hydroxide for, 1,134,093
—, —, —, —, copper oxide for, 1,134,093; 1,289,365; 1,289,366
—, —, —, —, iron for, 1,134,093
—, —, —, —, iron, nickel plated, for, 1,134,093
—, —, —, —, iron hydroxide for, 1,134,093
—, —, —, —, iron oxide for, 1,134,093
—, —, —, —, manganese for, 1,134,093
—, —, —, —, manganese hydroxide for, 1,134,093
—, —, —, —, manganese oxide for, 1,134,093
—, —, —, —, mercury for, 1,134,093
—, —, —, —, mercury hydroxide for, 1,134,093
—, —, —, —, mercury oxide for, 1,134,093
—, —, —, —, metal for, 1,134,093
—, —, —, —, metal hydroxide for, 1,134,093
—, —, —, —, metal oxide for, 1,134,093
—, —, —, —, nickel for, 1,134,093
—, —, —, —, nickel, iron plated with, for, 1,134,093
—, —, —, —, nickel hydroxide for, 1,134,093
—, —, —, —, nickel oxide for, 1,134,093
—, —, —, —, palladium for, 1,134,093
—, —, —, —, palladium hydrosol for, 1,134,093
—, —, —, —, palladium hydroxide for, 1,134,093
—, —, —, —, palladium oxide for, 1,134,093
—, —, —, —, platinum for, 1,134,093
—, —, —, —, platinum hydroxide for, 1,134,093
—, —, —, —, platinum oxide for, 1,134,093
—, —, —, —, selenides for, 1,289,366
—, —, —, —, selenium for, 1,289,366
—, —, —, —, silver for, 1,134,093
—, —, —, —, silver hydroxide for, 1,134,093
—, —, —, —, silver oxide for, 1,134,093
—, —, —, —, sulfur for, 1,289,365
—, —, —, —, tellurides for, 1,289,366
—, —, —, —, tellurium for, 1,289,366
—, —, cerium(ous) sulfide in, 1,316,760
—, —, cesium sulfide in, 1,316,760

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Battery, dry cell, chromium sulfide in, 1,316,760
—, —, cobalt(ous) sulfide in, 1,316,760
—, —, construction of, 1,433,136
—, —, copper-ammonium sulfide in, 1,316,760
—, —, copper oxide in, 1,316,761; 1,438,086
—, —, copper oxide, electrolytic, in, 1,438,086
—, —, —, oil and sulfur as negative electrode for, 1,255,283
—, —, copper oxide as negative electrode for, 1,255,283; 1,316,760
—, —, copper oxide scale in, 1,438,086
—, —, copper oxide and sulfur as depolarizer for, 1,316,761
—, —, copper(ous) oxide in, 1,438,086
—, —, copper(ic) sulfide in, 1,316,760
—, —, copper(ous) sulfide in, 1,316,760
—, —, deferred action type, 1,407,035
—, —, depolarizer for, dinitrobenzene as, 1,134,093
—, —, —, dinitro compound as, 1,134,093
—, —, —, dinitroethane as, 1,134,093
—, —, —, dinitromethane as, 1,134,093
—, —, —, dinitronaphthalene as, 1,134,093
—, —, —, dinitrotoluene as, 1,134,093
—, —, —, nitraniline as, 1,134,093
—, —, —, nitrobenzene as, 1,134,093
—, —, —, nitrobenzoic acid as, 1,134,093
—, —, —, nitro compound as, 1,134,093
—, —, —, nitroethane as, 1,134,093
—, —, —, nitromethane as, 1,134,093
—, —, —, nitronaphthalene as, 1,134,093
—, —, —, nitro-phenol as, 1,134,093
—, —, —, nitrotoluene as, 1,134,093
—, —, —, trinitrobenzene as, 1,134,093
—, —, —, trinitro compound as, 1,134,093
—, —, —, trinitroethane as, 1,134,093
—, —, —, trinitromethane as, 1,134,093
—, —, —, trinitronaphthalene as, 1,134,093
—, —, —, trinitrotoluene as, 1,134,093
—, —, diaphragm for, mfr. of, process for, 1,474,830
—, —, electrolyte for, alcohol in, 1,134,093
—, —, —, alkali hydroxide in, 1,134,093
—, —, —, cocoanut palm juice for preparing, 1,427,011
—, —, —, dinitrobenzene in, 1,134,093
—, —, —, dinitro compound in, 1,134,093
—, —, —, dinitroethane in, 1,134,093
—, —, —, dinitromethane in, 1,134,093
—, —, —, dinitronaphthalene in, 1,134,093
—, —, —, dinitrotoluene in, 1,134,093
—, —, —, lithium hydroxide in, 1,134,093
—, —, —, nipa palm juice for preparing, 1,427,011
—, —, —, nitraniline in, 1,134,093
—, —, —, nitrobenzene in, 1,134,093
—, —, —, nitro-benzoic acid in, 1,134,093
—, —, —, nitro compound in, 1,134,093
—, —, —, nitroethane in, 1,134,093
—, —, —, nitromethane in, 1,134,093
—, —, —, nitronaphthalene in, 1,134,093
—, —, —, nitrophenol in, 1,134,093
—, —, —, nitrotoluene in, 1,134,093
—, —, —, potassium hydroxide in, 1,134,093
—, —, —, sodium hydroxide in, 1,134,093
—, —, —, trinitrobenzene in, 1,134,093
Battery, dry cell, depolarizer for, trinitro compound in, 1,134,093
—, —, —, trinitroethane in, 1,134,093
—, —, —, trinitromethane in, 1,134,093
—, —, —, trinitronaphthalene in, 1,134,093
—, —, —, trinitrotoluene in, 1,134,093
—, —, —, "tuba" juice for preparing, 1,427,011
—, —, galvanized iron cup for, 1,331,456
—, —, hydrazine sulfate in, 1,316,760
—, —, hydrogen sulfide in, 1,316,760
—, —, iron disulfide in, 1,316,760
—, —, iron(ic) sulfide in, 1,316,760
—, —, iron(ous) sulfide in, 1,316,760
—, —, lead-coated zinc electrodes for, 1,425,573
—, —, lead sulfide in, 1,316,760
—, —, lithium sulfide in, 1,316,760
—, —, magnesium sulfide in, 1,316,760
—, —, mfr. of, 1,292,254
—, —, —, copper oxide for, 1,316,761
—, —, —, oil for, 1,255,283
—, —, —, red oil for, 1,255,283
—, —, —, sodium hydroxide for, 1,316,761
—, —, —, sulfur for, 1,255,283; 1,316,761
—, —, —, zinc for, 1,316,761
—, —, mercury-sodium sulfide in, 1,316,760
—, —, mercury(ic) sulfide in, 1,316,760
—, —, molybdenum disulfide in, 1,316,760
—, —, α-naphthylamine sulfate in, 1,316,760
—, —, nickel monosulfide in, 1,316,760
—, —, oil, copper oxide and sulfur as negative electrode for, 1,255,283
—, —, phenyl thiocarbamide in, 1,316,760
—, —, phosphorus(tetra) trisulfide in, 1,316,760
—, —, plates for, 1,364,953
—, —, potassium sulfide in, 1,316,760
—, —, rubidium sulfide in, 1,316,760
—, —, silicon sulfide in, 1,316,760
—, —, silver sulfide in, 1,316,760
—, —, sodium hydroxide in, 1,316,761; 1,438,086
—, —, sodium hydroxide electrolyte in, 1,255,283; 1,316,760
—, —, sodium-mercury sulfide in, 1,316,760
—, —, sodium sulfide in, 1,316,760
—, —, strontium sulfide in, 1,316,760
—, —, sulfide in, 1,316,760; 1,316,761; 1,438,086
—, —, sulfur, copper oxide and oil as negative electrode for, 1,255,283
—, —, sulfur bromide in, 1,316,760
—, —, sulfur(mono-) chloride in, 1,316,760
—, —, sulfur and copper oxide as depolarizer for, 1,316,761
—, —, sulfur iodide in, 1,316,760
—, —, tetraphosphorus trisulfide in, 1,316,760
—, —, thioacetic acid in, 1,316,760
—, —, thiocarbanilide in, 1,316,760
—, —, thiourea in, 1,316,760
—, —, tin(ic) sulfide in, 1,316,760
—, —, tin(ous) sulfide in, 1,316,760
—, —, titanium sulfide in, 1,316,760
—, —, vanadium pentasulfide in, 1,316,760
—, —, zinc in, 1,316,761
—, —, zinc, carbon and ammonium chloride in, 1,356,977
—, —, zinc anode for, 1,289,365; 1,289,366
—, —, zinc plates for, 1,364,953
—, —, zinc positive electrode for, 1,255,283; 1,316,760

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Battery, dry cell, zinc sulfide in, 1,316,760
—, —, *see Battery, dry; Battery, primary*
—, electrodes for, 1,369,813; 1,393,483
—, —, coating, oleaginous material for, 1,433,602
—, —, mfr. of, ammonium sulfate for, 1,156,316
—, —, —, cloth for, 1,156,316
—, —, —, copper oxide for, 1,140,403; 1,386,095
—, —, —, copper wire for, 1,140,403
—, —, —, lead oxides for, 1,156,316
—, —, —, magnesium sulfate for, 1,156,316
—, —, —, process for, 1,140,403; 1,156,316
—, —, —, sulfuric acid for, 1,156,316
—, —, zinc preparing, 1,399,996
—, electrolyte for, bismuth chloride in, 1,393,739
—, —, crude copper sulfate as, 1,375,513
—, —, mfr. of, alkali hydroxide for, 1,484,784
—, —, —, alum for, 1,487,235
—, —, —, ammonium sulfate for, 1,487,235
—, —, —, corn starch for, 1,484,784
—, —, —, glycerol for, 1,487,235
—, —, —, magnesium sulfate for, 1,487,235
—, —, —, petroleum for, 1,484.784
—, —, —, potassium hydroxide for, 1,303,453; 1,487,235
—, —, —, process for, 1,484,784; 1,487,235
—, —, —, sodium hydroxide for, 1,484,784
—, —, —, starch for, 1,484,784
—, —, —, sulfuric acid for, 1,487,235
—, —, —, wheat flour for, 1,484,784
—, —, sodium hydroxide in, 1,303,453
—, —, tungstates in, 1,416,738
—, electrolytic, 1,406,239
—, flour in, 1,464,838
—, galvanic, electrode for, 1,450,004
—, —, —, mfr. negative, 1,450,004
—, —, mfr. of, process for, 1,255,536
—, —, *see also Battery, dry; Battery, primary*
—, *gravity, see Battery, primary*
—, heat-excited, construction of, 1,415,832
—, Lalande, ammonium acetate, depolarizer for made with, 1,468,234
—, —, ammonium chloride, depolarizer for made with, 1,468,234
—, —, ammonium hydroxide in electrolyte for, 1,285,054
—, —, ammonium salt, depolarizer for made with, 1,468,234
—, —, ammonium sulfate depolarizer for made with, 1,468,234
—, —, carbon electrode for, 1,281,857
—, —, copper oxide for, 1,281,857
—, —, copper oxide depolarizer for made with, 1,468,234
—, —, copper oxide and sulfur cathode for, 1,269,173
—, —, depolarizer for, formula, copper oxide 100; sulfur 1.2, ammonium sulfate 2.5; 1,468,234
—, —, —, mfr. of, copper oxide for, 1,269,173
—, —, —, —, copper scale for, 1,269,173
—, —, —, —, copper(ic) sulfide for, 1,269,173
—, —, —, —, copper(ous) sulfide for, 1,269,173
—, —, —, —, hydrogen for, 1,269,173
—, —, —, —, process for, 1,269,173
—, —, —, —, sulfur for, 1,269,173
Battery, Lalande, electrode for, mfr. of, copper for, 1,211,388
—, —, —, —, copper oxide for, 1,211,388
—, —, —, —, copper(ic) oxide for, 1,129,818; 1,211,388
—, —, —, —, copper(ous) oxide for, 1,129,818; 1,211,388
—, —, —, —, copper sulfate for, 1,129,818
—, —, —, —, enamel for, 1,129,818
—, —, —, —, glass for, 1,129,818
—, —, —, —, mercury for, 1,211,388
—, —, —, —, molasses for, 1,211,388
—, —, —, —, process for, 1,129,818; 1,211,388
—, —, —, —, silicate for, 1,129,818
—, —, —, —, sodium hydroxide for, 1,211,388
—, —, —, —, sodium silicate for, 1,211,388
—, —, —, —, zinc dust for, 1,211,388
—, —, electrolyte for, recovery of sodium hydroxide from, 1,281,857
—, —, —, recovery of zinc from, 1,281,857
—, —, —, treatment of, apparatus for, 1,281,857
—, —, iron electrode for, 1,281,857
—, —, mfr. of, copper oxide for, 1,289,366
—, —, —, copper oxide and sulfur for, 1,289,365
—, —, —, potassium hydroxide for, 1,211,388
—, —, —, process for, 1,211,388
—, —, —, selenide for, 1,289,366
—, —, —, selenium for, 1,289,366
—, —, —, selenium compound for, 1,289,366
—, —, —, sodium hydroxide for, 1,211,388
—, —, —, sulfur and copper oxide for, 1,289,365
—, —, —, telluride for, 1,289,366
—, —, —, tellurium for, 1,289,366
—, —, —, tellurium compound for, 1,289,366
—, —, —, zinc electrode for, 1,211,388
—, —, potassium hydroxide electrolyte for, 1,269,173; 1,285,054; 1,289,366
—, —, sodium hydroxide electrolyte for, 1,269,173; 1,285,054; 1,289,366
—, —, sulfur, depolarizer for, made with, 1,468,234
—, —, sulfur and copper oxide cathode for, 1,269,173
—, —, zinc anode for, 1,269,173; 1,289,366
—, —, zinc electrode for, 1,281,857
—, —, *see also Battery, primary*
—, *Leclanche, see Battery, dry*
—, mfr. of, alkali hydroxide for, 1,289,609
—, —, ammonium sulfide for, 1,289,609
—, —, antimony, lead alloy contg., for, 1,375,012
—, —, asphalt for, 1,375,012
—, —, calcium hypochlorite for, 1,289,609
—, —, copper oxide for, 1,145.950
—, —, enamel for, 1,145,950
—, —, hypochlorite for, 1,289,609
—, —, lead, red, for, 1,289,609
—, —, lead alloy, antimony in, for, 1,375,012
—, —, lead dioxide for, 1,289,609
—, —, lead electrode for, 1,375,012
—, —, lead oxide for, 1,289,609
—, —, lead peroxide for, 1,375,012
—, —, litharge for, 1,289,609
—, —, lithium hydroxide for, 1,289,609
—, —, oil for, 1,289,609
—, —, paper, blotting for, 1,375,012
—, —, potassium hydroxide for, 1,145,950; 1,289,609

Battery, mfr. of, potassium sulfide for, 1,289,609
—, —, process for, 1,145,950; 1,289,030; 1,289,609; 1,375,012
—, —, sawdust for, 1,375,012
—, —, sodium hydroxide for, 1,145,950; 1,289,609
—, —, sodium hypochlorite for, 1,289,609
—, —, sodium sulfide for, 1,289,609
—, —, sulfuric acid for, 1,375,012
—, —, sulfide for, 1,289,609
—, —, wood pulp for, 1,375,012
—, —, zinc anode for, 1,145,950
—, material for, purifying, 1,343,585
—, nickel hydroxide electrode in, 1,416,738
—, potassium hydroxide as electrolyte for, 1,282,057; 1,285,054
—, primary, 1,407,489
—, —, carbon as electrode for, 1,258,266; 1,370,119
—, —, cathode for, copper(ic) oxide in, 1,137,226
—, —, —, copper(ous) oxide for, 1,137,226
—, —, —, mfr. of, alcohol for, 1,243,111
—, —, —, —, alkali for, 1,243,111
—, —, —, —, ammonium chloride for, 1,243,111
—, —, —, —, aqua-regia for, 1,243,111
—, —, —, —, palladium for, 1,343,111
—, —, —, —, palladium black for, 1,243,111
—, —, —, —, process for, 1,243,111
—, —, —, —, rhodium for, 1,243,111
—, —, —, —, sulfuric acid for, 1,243,111
—, —, —, —, zinc for, 1,243,111
—, —, coke electrodes for, 1,370,119
—, —, construction of, 1,338,412; 1,437,287
—, —, (alkali type), construction of, 1,334,946
—, —, copper(ic) hydroxide electrode for, mfr. of, copper(ic) sulfate for, 1,489,240
—, —, —, —, magnesium sulfate for, 1,489,240
—, —, —, —, potassium hydroxide for, 1,489,240
—, —, —, —, process for, 1,489,240
—, —, —, —, sodium hydroxide for, 1,489,240
—, —, copper oxide in, 1,437,287
—, —, copper oxide cathode for, 1,198,066
—, —, copper oxide depolarizer, mfr. of, alcohol for, 1,506,425
—, —, —, —, benzene for, 1,506,425
—, —, —, —, copper oxide for, 1,506,425
—, —, —, —, ether for, 1,506,425
—, —, —, —, ethyl alcohol for, 1,506,425
—, —, —, —, gasolene for, 1,506,425
—, —, —, —, methyl alcohol for, 1,506,425
—, —, —, —, oil for, 1,506,425
—, —, —, —, process for, 1,506,425
—, —, —, —, sodium hydroxide for, 1,506,425
—, —, —, —, zinc electrode for, 1,506,425
—, —, —, oil in, 1,506,425
—, —, copper oxide, electrode for, mfr. of, ammonium chloride for, 1,366,559; 1,486,955; 1,496,527
—, —, —, —, ammonium nitrate for, 1,486,955
—, —, —, —, ammonium salt for, 1,366,559; 1,496,527
—, —, —, —, ammonium sulfate for, 1,486,955
—, —, —, —, copper nitrate for, 1,486,955
—, —, —, —, copper oxide for, 1,295,459; 1,366,559; 1,386,095; 1,486,955
—, —, —, —, copper(ic) oxide for, 1,496,526; 1,496,527; 1,496,528
Battery, primary, copper oxide, mfr. of, electrode for, copper salt for, 1,386,095
—, —, —, —, copper sulfate for, 1,386,095; 1,486,955
—, —, —, —, engine oil for, 1,295,459
—, —, —, —, glue for, 1,295,459
—, —, —, —, iron for, 1,366,559
—, —, —, —, iron, finely divided, for, 1,496,527; 1,496,528
—, —, —, —, "iron by hydrogen" for, 1,366,559; 1,496,527; 1,496,528
—, —, —, —, iron nitrate for, 1,486,955
—, —, —, —, iron oxide for, 1,496,527
—, —, —, —, iron sulfate for, 1,486,955
—, —, —, —, metal for, 1,366,559
—, —, —, —, process for, 1,295,459; 1,366,559; 1,386,095; 1,486,955
—, —, —, —, sodium hydroxide for, 1,366,559; 1,386,095; 1,486,955; 1,496,526; 1,496,528
—, —, —, —, sodium sulfate for, 1,486,955
—, —, —, —, sugar for, 1,295,459
—, —, —, —, zinc for, 1,496,526
—, —, —, —, zinc oxide for, 1,366,559
—, —, —, process for, 1,496,526; 1,496,527; 1,496,528
—, —, —, —, *see also Battery, Lalande, electrode for*
—, —, depolarizer for, copper(ous) sulfide as, 1,179,903
—, —, —, mfr. of, air for, 1,148,152; Re-14,051
—, —, —, —, copper oxide for, 1,489,328
—, —, —, —, copper oxysulfide for, 1,148,152; Re-14,051; 1,489,328
—, —, —, —, copper sulfide for, 1,489,328
—, —, —, —, copper sulfide, CuS, for, 1,148,152; Re-14,051
—, —, —, —, —, Cu_2S, for, 1,148,152; Re-14,051
—, —, —, —, iron oxide for, 1,489,328
—, —, —, —, iron oxysulfide for, 1,489,328
—, —, —, —, iron sulfide for, 1,489,328
—, —, —, —, lead oxide for, 1,489,328
—, —, —, —, lead oxysulfide for, 1,489,328
—, —, —, —, lead sulfide for, 1,489,328
—, —, —, —, metal oxide for, 1,489,328
—, —, —, —, metal oxysulfide for, 1,489,328
—, —, —, —, metal sulfide for, 1,489,328
—, —, —, —, oxide for, 1,489,328
—, —, —, —, oxysulfide for, 1,489,328
—, —, —, —, process for, 1,148,152; Re-14,051; 1,489,328
—, —, —, —, sodium hydroxide for, 1,148,152; Re-14,051
—, —, —, —, sulfide for, 1,489,328
—, —, —, —, sulfur for, 1,489,328
—, —, —, —, zinc for, 1,148,152; Re-14,051
—, —, depolarizing, copper oxide and air for, 1,370,119
—, —, depolarizing mixture for, 1,331,213
—, —, electrode for, construction of, 1,225,346
—, —, —, mfr. of, caramel for, 1,356,197
—, —, —, —, charcoal for, 1,356,197
—, —, —, —, copper for, 1,356,197
—, —, —, —, copper(ic) oxide for, 1,350,197
—, —, —, —, copper(ous) oxide for, 1,356,197
—, —, —, —, process for, 1,356,197
—, —, electrolyte for, potassium hydroxide in, 1,137,226; 1,489,240

Battery, primary, electrolyte for, sodium hydroxide for, 1,137,226; 1,489,240
—, —, graphite, porous, electrode for, 1,370,119
—, —, iron as electrode for, 1,258,226
—, —, iron(ic) chloride as electrolyte for 1,258,266
—, —, iron(ous) chloride formed in, 1,258,266
—, —, construction of, 1,338,412
—, —, mfr. of, 1,296,700
—, —, —, acetyl chloride for, 1,357,160
—, —, —, alkali earth hydroxide for, 1,489,240
—, —, —, alkali hydroxide for, 1,201,479; 1,201,480; 1,219,074; 1,484,781; 1,484,784
—, —, —, alkali zincate for, 1,219,074
—, —, —, alum for, 1,190,880
—, —, —, aluminum electrode for, 1,190,880
—, —, —, aluminum sulfate for, 1,190,880
—, —, —, ammonia for, 1,484,781
—, —, —, ammonium chloride for, 1,201,709; 1,215,774; 1,356,977; 1,357,160; 1,486,613
—, —, —, ammonium compound for, 1,484,781
—, —, —, ammonium hydroxide for, 1,484,781
—, —, —, ammonium polysulfide for, 1,484,781
—, —, —, ammonium sulfate for, 1,484,781
—, —, —, ammonium sulfide for, 1,484,781
—, —, —, aniline hydrochloride for, 1,357,160
—, —, —, apparatus for, 1,161,322; 1,207,382; 1,224,455
—, —, —, asphalt for, 1,196,611; 1,215,774
—, —, —, asbestos for, 1,163,834; 1,486,042
—, —, —, barium hydroxide for, 1,489,240
—, —, —, bark liquor for, 1,505,656
—, —, —, benzenesulfonyl chloride for, 1,357,160
—, —, —, benzoyl chloride for, 1,357,160
—, —, —, bichromate for, 1,201,481
—, —, —, bromide for, 1,163,834
—, —, —, cadmium alloy electrode for, 1,196,611
—, —, —, cadmium electrode for, 1,196,611
—, —, —, calcium hydroxide for, 1,489,240
—, —, —, carbon for, 1,504,788
—, —, —, carbon anode for, 1,504,788
—, —, —, carbon electrode for, 1,163,834; 1,201,709; 1,215,774; 1,240,885; 1,240,886; 1,356,977; 1,486,042; 1,486,069; 1,486,613
—, —, —, carbon tetrachloride for, 1,357,160
—, —, —, cardboard for, 1,215,774
—, —, —, casein for, 1,201,481
—, —, —, celluloid for, 1,163,834; 1,486,069
—, —, —, charcoal for, 1,486,613
—, —, —, chlorine for 1,163,834
—, —, —, chloroform for, 1,357,160
—, —, —, *a*-chlor-toluene for, 1,357,160
—, —, —, chromate for, 1,201,481
—, —, —, clay for, 1,486,042
—, —, —, corn pith for, 1,196,313; 1,196,611
—, —, —, corn starch for, 1,484,784
—, —, —, copper for, 1,224,455
—, —, —, copper anode for, 1,225,346
—, —, —, copper container for, 1,224,455
—, —, —, copper electrode for, 1,179,903
—, —, —, copper(ic) hydroxide for, 1,489,240
—, —, —, copper oxide for, 1,295,459; 1,484,781
—, —, —, copper(ic) oxide for, 1,161,322; 1,163,163; 1,224,455; 1,489,240
—, —, —, copper(ous) oxide for, 1,224,455
—, —, —, copper oxide anode for, 1,167,499
Battery, primary, mfr. of, copper oxide cathode for, 1,207,382; 1,386,095; 1,484,784; 1,486,955
—, —, —, copper oxide electrode for, 1,138,363; 1,186,083; 1,186,084; 1,201,479; 1,201,480; 1,201,481; 1,224,455; 1,226,816; 1,295,459; 1,505,656
—, —, —, copper(ic) oxide electrode for, 1,196,313; 1,196,611
—, —, —, copper(ous) oxide electrode for, 1,196,313; 1,196,611
—, —, —, copper(ic) sulfate for, 1,489,240
—, —, —, copper sulfide for, 1,484,781
—, —, —, copper(ous) sulfide for, 1,179,903
—, —, —, dextrin for, 1,224,455
—, —, —, *a.a*-dichlor-toluene for, 1,357,160
—, —, —, ebonite for, 1,201,709
—, —, —, engine oil for, 1,295,459
—, —, —, ethyl bromide for, 1,357,160
—, —, —, ethyl chloride for, 1,357,160
—, —, —, ethyl iodide for, 1,357,160
—, —, —, fabric, waterproof, for, 1,504,788
—, —, —, felt for, 1,201,709; 1,356,977
—, —, —, fiber for 1,504,788
—, —, —, fruit extract for, 1,201,481
—, —, —, gelatin for, 1,201,481; 1,224,455; 1,484,781
—, —, —, glass for, 1,201,709; 1,240,885
—, —, —, glue for, 1 201,481; 1,295,459
—, —, —, glue, marine, for, 1,201,709
—, —, —, grain for, 1,201,481
—, —, —, graphite for, 1,219,074; 1,489,240
—, —, —, gum for, 1,201481
—, —, —, gutta percha for, 1,190,878; 1,190,879; 1,356,977
—, —, —, halogen for, 1,163,834
—, —, —, halogen salt for, 1,163,834
—, —, —, hydrogen sulfide for, 1,484,781
—, —, —, iron, tin coated, for, 1,215,774
—, —, —, iron cathode for, 1,225,346; 1,504,788
—, —, —, lead for, 1,163,163
—, —, —, lithium hydroxide for, 1,201,481
—, —, —, log wood extract for, 1,505,656
—, —, —, magnesium alloy electrode for, 1,196,611
—, —, —, magnesium electrode for, 1,196,611
—, —, —, magnesium hydroxide for, 1,489,240
—, —, —, magnesium sulfate for, 1,486,069; 1,489,240
—, —, —, mercury for, 1,486,613
—, —, —, mercury(ic) oxide for, 1,219,074
—, —, —, mercury(ic) oxide cathode for, 1,219,074
—, —, —, molasses for, 1,196,611
—, —, —, nitric acid for, 1,190,878; 1,190,879; 1,191,070
—, —, —, oil for, 1,196,313; 1,196,611; 1,295,459
—, —, —, oxygen for, 1,190,878; 1,190,879; 1,190,880; 1,191,070
—, —, —, paper for, 1,486,042
—, —, —, paper, absorbent, for, 1,196,611
—, —, —, paper, blotting, for, 1,196,611
—, —, —, —, waterproof, for, 1,504,788
—, —, —, paraffin for, 1,215,774; 1,486,042
—, —, —, paste board for, 1,215,774
—, —, —, petroleum for, 1,484,784
—, —, —, phenolphthalein for, 1,505,656

Battery, primary, mfr. of, pitch for, 1,196,611; 1,215,774
—, —, —, plaster of Paris for, 1,439,956
—, —, —, platinum, steel coated with, for, 1,190,880
—, —, —, —, zinc coated with, electrode, for, 1,190,878; 1,190,879
—, —, —, porcelain for, 1,207,382; 1,240,885
—, —, —, potassium bichromate for, 1,504,788
—, —, —, potassium hydroxide for, 1,163,163; 1,219,074; 1,224,455; 1,240,885; 1,486,042; 1,489,240
—, —, —, potassium salt for, 1,486,069
—, —, —, potassium silicate for, 1,486,042; 1,486,069
—, —, —, potassium sulfate for, 1,486,069
—, —, —, potato for, 1,201,481
—, —, —, process for, 1,138,363; 1,161,322; 1,163,163; 1,163,834; 1,167,499; 1,179,903; 1,186,083; 1,186,084; 1,190,878; 1,190,879; 1,190,880; 1,191,070; 1,196,313; 1,196,611; 1,201,479; 1,201,480; 1,201,481; 1,201,709; 1,207,382; 1,215,774; 1,219,074; 1,224,455; 1,225,346; 1,226,816; 1,240,885; 1,240,886; 1,258,266; 1,295,459; 1,356,977; 1,357,160; 1,386,095; 1,439,956; 1,484,781; 1,484,784; 1,486,042; 1,486,069; 1,486,613; 1,486,955; 1,489,240; 1,504,788; 1,505,656
—, —, —, pyrolusite for, 1,357,160
—, —, —, quebracho extract for, 1,505,656
—, —, —, ratan for, 1,196,313; 1,196,611
—, —, —, sand for, 1,196,313; 1,196,611; 1,201,481
—, —, —, sawdust for, 1,504,788
—, —, —, silicate for, 1,201,481
—, —, —, silver cathode for, 1,439,956
—, —, —, silver chloride for, 1,439,956
—, —, —, sodium bichromate for, 1,240,885; 1,486,042; 1,486,069
—, —, —, sodium bisulfate for, 1,190,880
—, —, —, sodium chloride for, 1,504,788
—, —, —, sodium hydroxide for, 1,163,163; 1,179,903; 1,196,313; 1,196,611; 1,201,481; 1,207,382; 1,219,074; 1,224,455; 1,295,459; 1,484,781; 1,484,784; 1,489,240; 1,505,656
—, —, —, sodium nitrate for, 1,504,788
—, —, —, sodium phosphate for, 1,505,656
—, —, —, sodium polysulfide for, 1,484,781
—, —, —, sodium salt for, 1,486,069
—, —, —, sodium silicate for, 1,486,042; 1,486,069
—, —, —, sodium sulfate for, 1,190,880; 1,486,069
—, —, —, sodium sulfide for, 1,484,781
—, —, —, sodium zincate for, 1,505,656
—, —, —, starch for, 1,201,481; 1,219,074; 1,224,455; 1,484,784
—, —, —, starch cells for, 1,201,481
—, —, —, starch paste for, 1,504,788
—, —, —, steel for, 1,163,834
—, —, —, steel, platinum coated, for, 1,190,880
—, —, —, strontium hydroxide for, 1,489,240
—, —, —, sugar for, 1,295,459; 1,356,197
—, —, —, sulfur for, 1,484,781
—, —, —, sulfuric acid for, 1,190,880; 1,191,070; 1,240,885; 1,486,042; 1,486,069; 1,504,788
—, —, —, tannic acid for, 1,505,656
—, —, —, tannin for, 1,505,656
Battery, primary, mfr. of, tapioca for, 1,201,481
—, —, —, tea solution for, 1,505,656
—, —, —, *s*-tetrachlor-ethane for, 1,357,160
—, —, —, tin for, 1,215,774
—, —, —, tin, iron coated with, for, 1,215,774
—, —, —, trichlorhydrin for, 1,357,160
—, —, —, trichlor-phenol for, 1,357,160
—, —, —, *a.a.a.*-trichlor-toluene for, 1,357,160
—, —, —, urea for, 1,484,781
—, —, —, wax for, 1,196,611; 1,201,709
—, —, —, wheat for, 1,201,481
—, —, —, wheat flour for, 1,484,781; 1,484,784
—, —, —, wood fiber for, 1,504,788
—, —, —, zinc for, 1,161,322
—, —, —, zinc, platinized, electrode, for, 1,190,878; 1,190,879
—, —, —, zinc alloy electrode for, 1,196,611
—, —, —, zinc anode for, 1,207,382; 1,219,074; 1,386,095; 1,439,956; 1,484,781; 1,484,784; 1,486,955
—, —, —, zinc bromide for, 1,163,834
—, —, —, zinc cathode for, 1,167,499; 1,225,346; 1,504,788
—, —, —, zinc chloride for, 1,201,709; 1,439,956; 1,486,613
—, —, —, zinc electrode for, 1,138,363; 1,163,834; 1,179,903; 1,186,083; 1,186,084; 1,190,878; 1,190,879; 1,190,880; 1,191,070; 1,196,313; 1,196,611; 1,201,479; 1,201,480; 1,201,481; 1,201,709; 1,215,774; 1,224,455; 1,226,816; 1,240,885; 1,240,886; 1,486,042; 1,486,069; 1,486,613; 1,489,240; 1,295,459; 1,356,977; 1,505,656
—, —, —, zinc sulfate for, 1,190,878; 1,190,879; 1,191,070
—, —, mercury used in connection with, 1,370,119
—, —, regeneration of, chlorine for, 1,258,266
—, —, —, process for, 1,258,266
—, —, sodium chloride as electrolyte for, 1,258,266; 1,369,813; 1,370,119
—, —, storage and, combined, construction of, 1,334,849
—, —, tin as electrode for, 1,258,266
—, —, zinc anode for, 1,137,226
—, —, zinc chloride formed in, 1,258,266
—, —, zinc and copper(ic) oxide in, 1,369,813
—, —, zinc electrode for, 1,258,266; 1,370,119; 1,496,526; 1,496,527; 1,496,528
—, —, —, construction of, 1,199,558
—, —, (gravity type) zinc electrode for, construction of, 1,199,558
—, —, *see also Battery, dry; Battery, Lalande*
—, *radio, see Battery, storage*
—, *reserve, see Battery, dry, reserve type*
—, reserve-type, mfr. of, 1,390,524
—, —, *see also Battery, deferred action type*
—, reversible, 1,436,873
—, secondary, dry, mfr. of, manganese dioxide for, 1,256,864
—, —, dry separator for, mfr. of, asbestos for, 1,256,864
—, —, —, —, calcium sulfate for, 1,256,864
—, —, —, —, glass wool for, 1,256,864
—, —, —, —, hydrochloric acid for, 1,256,864
—, —, —, —, paper, blotting for, 1,256,864

Battery, secondary, dry separator for, mfr. of, process for, 1,256,864
—, —, —, —, sulfuric acid for, 1,256,864
—, —, —, —, volcanic ash for, 1,256,864
—, —, electrode for, 1,370,058
—, —, separator for, mfr. of, asbestos for, 1,256,864
—, —, —, —, calcium sulfate for, 1,256,864
—, —, —, —, glass wool for, 1,256,864
—, —, —, —, hydrochloric acid for, 1,256,864
—, —, —, —, paper, blotting, for, 1,256,864
—, —, —, —, process for, 1,256,864
—, —, —, —, sulfuric acid for, 1,256,864
—, —, —, —, volcanic ash for, 1,256,864
—, —, *see also Battery, storage*
—, separator for, mfr. of, cedar for, 1,190,025
—, —, —, fir for, 1,190,025
—, —, —, pine, yellow for, 1,190,025
—, —, —, process for, 1,190,025
—, —, —, wood for, 1,190,025
—, —, tripoli in, 1,279,074; Re-15,067
—, silica, amorphous, in, 1,405,627
—, sodium chloride as electrolyte for, 1,370,119
—, sodium hydroxide as electrolyte for, 1,282,057; 1,285,054; 1,375,647
—, sodium hydroxide type, 1,360,055; 1,407,489
—, storage, 1,401,676; 1,409,895; 1,419,396; 1,427,970; 1,443,321; 1,443,322
—, —, acid-laden air from rooms for mfr. of, treatment of, process for, 1,521,348
—, —, alkali, nickel electrode for, 1,350,956
—, —, alkaline, electrolytes for, 1,416,738
—, —, alkaline type, cerium oxide made for, 1,167,485
—, —, —, mfr. of, process for, 1,167,485
—, —, —, nickel hydroxide made for, 1,167,484
—, —, anode for, nickel flake for, 1,275,232
—, —, —, nickel hydroxide in, 1,275,232
—, —, barium hydroxide in electrolyte in, 1,371,746
—, —, boxes for, mfr. of, 1,456,565
—, —, calcium aluminate in, 1,371,746
—, —, calcium sulfate in, 1,433,136
—, —, cathode for, iron, finely divided, in, 1,275,232
—, —, —, mfr. of, mercury for, 1,139,213
—, —, —, —, mercury compound for, 1,139,213
—, —, —, —, potassium titanate for, 1,139,213
—, —, —, —, process for, 1,139,213
—, —, —, —, sodium titanate for, 1,139,213
—, —, —, —, titanium compound for, 1,139,213
—, —, —, —, zinc chloride for, 1,139,213
—, —, —, —, zinc nitrate for, 1,139,213
—, —, —, —, zinc salt for, 1,139,213
—, —, —, —, zinc sulfate for, 1,139,213
—, —, —, mercury finely divided, in, 1,275,232
—, —, celluloid in construction of, 1,443,321; 1,443,322
—, —, celluloid insulator for, 1,339,835
—, —, celluloid separator for, 1,164,746
—, —, celluloid used in, 1,415,275
—, —, cerium compound in electrode for, 1,167,485
—, —, cerium oxide in electrode for, 1,167,485
—, —, charging, 1,417,007
—, —, condition of, testing, cadmium test device for, 1,426,868
Battery, storage, connector for, mfr. of, copper, lead coated, for, 1,197,246
—, —, —, —, lead, copper coated, with, for, 1,197,246
—, —, —, —, process for, 1,197,246
—, —, —, sealing of, process for, 1,328,357
—, —, construction of, 1,160,491; 1,163,991; 1,163,992; 1,163,993; 1,166,101; 1,166,102; 1,245,428; 1,327,234; 1,327,650; 1,359,491; 1,388,656; 1,433,136
—, —, —, construction and operation of, 1,436,873
—, —, construction of for submarines, 1,283,779
—, —, constructional details of, 1,328,394; 1,329,181; 1,358,334; 1,358,350
—, —, container for, 1,364,469
—, —, —, mfr. of, alcohol for, 1,306,679
—, —, —, —, amyl acetate for, 1,306,679
—, —, —, —, antimony, lead alloy contg., for, 1,197,022
—, —, —, —, apparatus for, 1,515,381
—, —, —, —, arsenic for, 1,341,871
—, —, —, — arsenic trioxide for, 1,341,871
—, —, —, —, asbestos for, 1,156,122; 1,497,531; 1,512,313
—, —, —, —, asphalt for, 1,156,122; 1,197,022; 1,285,303; 1,447,782; 1,512,313
—, —, —, —, asphalt, Genasco, for, 1,329,232
—, —, —, —, benzene for, 1,447,782
—, —, —, —, benzine for, 1,447,782
—, —, —, —, camphor for, 1,306,679
—, —, —, —, castor oil for, 1,512,313
—, —, —, —, celluloid for, 1,306,679; 1,501,351; 1,501,352
—, —, —, —, cellulose nitrate for, 1,306,679; 1,501,351; 1,501,352
—, —, —, —, cement for, 1,329,232
—, —, —, —, chicle for, 1,306,679
—, —, —, —, clay, blue, for, 1,341,871
—, —, —, —, cloth for, 1,156,122
—, —, —, —, coal tar for, 1,156,122
—, —, —, —, concrete for, 1,512,313
—, —, —, —, cotton for, 1,156,122
—, —, —, —, elaterite for, 1,156,122
—, —, —, —, enamel for, 1,341,871
—, —, —, —, ether for, 1,306,679
—, —, —, —, ethyl alcohol for, 1,447,782
—, —, —, —, felt for, 1,156,122
—, —, —, —, fiber for, 1,341,871
—, —, —, —, fiber, animal, for, 1,156,122
—, —, —, —, fiber, mineral, for, 1,156,122
—, —, —, —, fish oil for, 1,512,313
—, —, —, —, gasolene for, 1,447,782
—, —, —, —, gilsonite for, 1,156,122
—, —, —, —, grahamite for, 1,156,122
—, —, —, —, gravel for, 1,156,122
—, —, —, —, grease for, 1,512,313
—, —, —, —, hair for, 1,156,122
—, —, —, —, hexamethylenetetramine for, 1,515,381
—, —, —, —, lamp black for, 1,447,782
—, —, —, —, lead for, 1,197,022; 1,341,871
—, —, —, —, lead alloy, antimony in, for, 1,197,022
—, —, —, —, linen for, 1,497,531
—, —, —, —, litharge for, 1,497,531
—, —, —, —, magnesia for, 1,485,438

Battery, storage, container for, mfr. of, magnesite for, 1,512,313
—, —, —, —, metal for, 1,197,022; 1,485,438; 1,512,313
—, —, —, —, methyl alcohol for, 1,447,782
—, —, —, —, mineral rubber for, 1,515,381
—, —, —, —, Montan wax for, 1,512,313
—, —, —, —, naphtha for, 1,447,782
—, —, —, —, oil, non-drying, for, 1,512,313
—, —, —, —, oil, vegetable, for, 1,485,438
—, —, —, —, paint, asphalt for, 1,447,782
—, —, —, —, paper for, 1,156,122; 1,512,313
—, —, —, —, paper pulp for, 1,156,122; 1,341,871
—, —, —, —, papier-mache for, 1,306,679
—, —, —, —, paregoric for, 1,306,679
—, —, —, —, "Paramold" for, 1,456,565
—, —, —, —, piperidinepiperidyldithiocarbonate for, 1,515,381
—, —, —, —, pitch for, 1,329,232
—, —, —, —, process for, 1,156,122; 1,197,022; 1,306,679; 1,327,649; 1,329,232; 1,341,871; 1,414,326; 1,447,782; 1,456,565; 1,485,438; 1,497,531; 1,501,351; 1,501,352; 1,512,313; 1,513,037; 1,515,381
—, —, —, —, rubber for, 1,341,871; 1,497,531; 1,501,351; 1,501,352; 1,513,037; 1,515,381
—, —, —, —, rubber, hard, for, 1,197,022
—, —, —, —, rubber, hard, dust, for, 1,515,381
—, —, —, —, —, synthetic, for, 1,456,565
—, —, —, —, sand for, 1,156,122; 1,512,313
—, —, —, —, shellac for, 1,447,782
—, —, —, —, silica for, 1,341,871; 1,512,313; 1,515,381
—, —, —, —, soapstone for, 1,156,122
—, —, —, —, steel wool for, 1,512,313
—, —, —, —, stone for, 1,512,313
—, —, —, —, straw for, 1,156,122
—, —, —, —, sulfur for, 1,497,531; 1,512,313; 1,515,381
—, —, —, —, sulfur chloride for, 1,485,438
—, —, —, —, talc for, 1,156,122; 1,512,313
—, —, —, —, tar pitch for, 1,512,313
—, —, —, —, triphenylguanidine for, 1,515,381
—, —, —, —, wheat flour for, 1,329,232
—, —, —, —, wood for, 1,341,871; 1,447,782; 1,501,351; 1,501,352; 1,512,313
—, —, —, —, wood fiber for, 1,512,313
—, —, —, —, wool for, 1,156,122
—, —, —, —, zinc oxide for, 1,515,381
—, —, —, *see also Bituminous composition, fibrous,*
—, —, counter-, electrolyte for, chromic acid or chromates in, 1,437,470
—, —, depolarizer for, mfr. of, air for, 1,148,152; Re-14,051
—, —, —, —, copper oxysulfide for, 1,148,152; Re-14,051
—, —, —, —, copper sulfide, CuS, for, 1,148,152; Re-14,051
—, —, —, —, copper sulfide, Cu_2S, for, 1,148,152; Re-14,051
—, —, —, —, process for, 1,148,152; Re-14,051
—, —, —, —, sodium hydroxide for, 1,148,152; Re-14,051
—, —, —, —, zinc for, 1,148,152; Re-14,051
—, —, "dry," 1,371,746
Battery, storage, dry type, mfr. of, lead electrode for, 1,479,848
—, —, —, —, methyl salicylate for, 1,479,848
—, —, —, —, paper for, 1,176,970
—, —, —, —, paraffin for, 1,176,970
—, —, —, —, paste-board for, 1,176,970
—, —, —, —, plaster of Paris for, 1,176,970
—, —, —, —, process for, 1,176,970; 1,479,848
—, —, —, —, sodium silicate for, 1,479,848
—, —, —, —, sulfuric acid for, 1,176,970; 1,479,848
—, —, —, —, "West's disinfectant" for, 1,479,848
—, —, ebonite in construction of, 1,443,321; 1,443,322
—, —, Edison type, construction of, 1,165,101; 1,283,779
—, —, —, mfr. of, nickel flake for, 1,488,480; 1,488,481
—, —, —, —, nickel hydroxide for, 1,488,480; 1,488,481
—, —, —, —, process for, 1,488,480; 1,488,481
—, —, electrode for, 1,366,489; 1,370,058; 1,375,317; 1,376,920; 1,411,256
—, —, —, cadmium for, 1,373,733
—, —, —, celluloid in, 1,366,491
—, —, —, cobalt(ous) oxide in, 1,373,734
—, —, —, construction of, rubber, hard, for, 1,492,816
—, —, —, ferro-silicon as, 1,425,163
—, —, electrodes for, mfr. of, 1,390,629; 1,402,751; 1,427,970
—, —, —, —, acetone for, 1,439,994
—, —, —, —, alcohol for, 1,156,686; 1,439,994
—, —, —, —, alginates for, 1,508,732
—, —, —, —, alginic acid for, 1,508,732
—, —, —, —, alkali phenolate for, 1,175,954
—, —, —, —, aluminum grid for, 1,144,311
—, —, —, —, aluminum sulfate for, 1,454,078
—, —, —, —, ammonia for, 1,498,866
—, —, —, —, ammonium acetate for, 1,175,954
—, —, —, —, ammonium alginate for, 1,508,732
—, —, —, —, ammonium hydroxide for, 1,175,954
—, —, —, —, ammonium sulfate for, 1,215,907; 1,228,546; 1,303,513; 1,342,953; 1,427,970
—, —, —, —, antimony, lead alloy contg., for, 1,190,982; 1,197,816; 1,381,387; 1,498,359
—, —, —, —, apparatus for, 1,144,311; 1,198,426; 1,238,211; 1,295,365; 1,303,513
—, —, —, —, asbestos for, 1,350,956
—, —, —, —, asphalt for, 1,500,219
—, —, —, —, barium sulfate for, 1,182,513
—, —, —, —, cadmium for, 1,175,954
—, —, —, —, cadmium oxide for, 1,175,954
—, —, —, —, cadmium wire for, 1,315,032
—, —, —, —, canvas for, 1,427,970
—, —, —, —, carbon for, 1,342,953
—, —, —, —, carbon anode for, 1,144,311
—, —, —, —, celluloid for, 1,197,816; 1,364,011; 1,484,928; 1,500,219
—, —, —, —, cellulose nitrate for, 1,454,078
—, —, —, —, cloth for, 1,427,970
—, —, —, —, cobalt for, 1,175,954
—, —, —, —, copper for, 1,175,954
—, —, —, —, copper, lead coated, for, 1,240,280
—, —, —, —, copper-nickel alloy wire for, 1,315,032
—, —, —, —, ether for, 1,439,994

Battery, storage, electrodes for, mfr. of, ethyl alcohol for, 1,439,994
—, —, —, —, glass for, 1,500,219
—, —, —, —, glue for, 1,454,078
—, —, —, —, glycerol for, 1,454,078
—, —, —, —, gutta percha for, 1,510,617
—, —, —, —, hydrogen for, 1,156,686
—, —, —, —, illuminating gas for, 1,156,686
—, —, —, —, iron for, 1,175,954
—, —, —, —, iron, galvanized, wire for, 1,315,032
—, —, —, —, iron-nickel alloy wire for, 1,315,032
—, —, —, —, iron wire for, 1,315,032
—, —, —, —, kieselguhr for, 1,342,953
—, —, —, —, lampblack for, 1,427,970
—, —, —, —, lead for, 1,156,686; 1,190,982; 1,192,224; 1,197,816; 1,236,672; 1,342,953; 1,364,011; 1,375,317; 1,381,387; 1,439,994; 1,498,359; 1,500,219
—, —, —, —, lead, copper coated with, for, 1,240,280
—, —, —, —, —, red, for, 1,182,513; 1,375,317; 1,381,387; 1,427,970; 1,454,078; 1,505,990
—, —, —, —, lead alginate for, 1,508,732
—, —, —, —, lead alloy, antimony in, for, 1,190,982; 1,197,816; 1,381,387; 1,498,359
—, —, —, —, lead dioxide for, 1,500,219
—, —, —, —, lead grid for, 1,141,251
—, —, —, —, lead monoxide for, 1,144,311
—, —, —, —, lead oxides for, 1,144,311; 1,156,686; 1,182,513; 1,215,907; 1,228,546; 1,228,547; 1,303,513; 1,342,953; 1,439,994; 1,498,359; 1,500,076; 1,510,617; 1,505,990; 1,508,732; 1,516,373
—, —, —, —, lead oxide, PbO, for, 1,375,317
—, —, —, —, —, PbO_2, for, 1,215,907
—, —, —, —, —, Pb_2O_3, for, 1,182,513
—, —, —, —, lead peroxide for, 1,144,311; 1,381,387; 1,508,732
—, —, —, —, lead suboxide for, 1,144,311
—, —, —, —, lead sulfate for, 1,156,686; 1,228,546; 1,228,547; 1,303,513; 1,498,359; 1,516,373
—, —, —, —, lignin for, 1,505,990
—, —, —, —, lignite for, 1,505,990
—, —, —, —, linen for, 1,427,970
—, —, —, —, litharge for, 1,182,513; 1,215,907; 1,228,547; 1,375,317; 1,381,387; 1,427,970; 1,505,990
—, —, —, —, magnesium sulfate for, 1,215,907; 1,381,387
—, —, —, —, massicot for, 1,215,907
—, —, —, —, mercury for, 1,342,953
—, —, —, —, metal oxide for, 1,350,956; 1,500,076
—, —, —, —, minium for, 1,375,317
—, —, —, —, nickel for, 1,175,954; 1,350,956
—, —, —, —, nickel-copper alloy wire for, 1,315,032
—, —, —, —, nickel flake for, 1,198,426
—, —, —, —, nickel hydroxide for, 1,198,426
—, —, —, —, nickel-iron alloy wire for, 1,315,032
—, —, —, —, nickel plated wire for, 1,315,032
—, —, —, —, nickel wire for, 1,315,032
—, —, —, —, nitrogen for, 1,156,686
—, —, —, —, paper for, 1,427,970
—, —, —, —, paper, unsized, for, 1,500,076
—, —, —, —, paraffin for, 1,192,224
—, —, —, —, phenol for, 1,175,954
Battery, storage, electrodes for, mfr. of, platinum anode for, 1,144,311
—, —, —, —, potato, baked, for, 1,516,373
—, —, —, —, —, boiled, for, 1,516,373
—, —, —, —, process for, 1,141,251; 1,144,311; 1,156,686; 1,175,954; 1,182,513; 1,190,982; 1,192,224; 1,197,816; 1,198,426; 1,215,907; 1,218,329; 1,228,546; 1,228,547; 1,228,551; 1,236,672; 1,238,211; 1,240,280; 1,295,365; 1,315,032; 1,327,336; 1,328,392; 1,342,953; 1,350,956; 1,354,086; 1,364,011; 1,374,477; 1,375,317; 1,381,387; 1,427,970; 1,439,994; 1,454,078; 1,484,928; 1,498,359; 1,498,866; 1,500,076; 1,500,219; 1,505,990; 1,508,732; 1,510,617; 1,516,373; 1,520,724
—, —, —, —, pumice for, 1,141,251; 1,342,953
—, —, —, —, radium sulfate for, 1,182,513
—, —, —, —, red lead for, 1,303,513
—, —, —, —, rubber for, 1,197,816; 1,218,329; 1,484,928; 1,500,219; 1,510,617
—, —, —, —, rubber, hard, for, 1,197,816; 1,364,011
—, —, —, —, silver anode for, 1,144,311
—, —, —, —, sodium acetate for, 1,175,954
—, —, —, —, sodium alginate for, 1,508,732
—, —, —, —, sodium bicarbonate for, 1,454,078
—, —, —, —, sodium carbonate for, 1,144,311; 1,175,954
—, —, —, —, sodium chloride for, 1,175,954
—, —, —, —, sodium hydroxide for, 1,144,311
—, —, —, —, sodium nitrate for, 1,175,954
—, —, —, —, sodium plumbate for, 1,144,311
—, —, —, —, sodium silicate for, 1,141,251
—, —, —, —, sodium sulfate for, 1,175,954
—, —, —, —, steel for, 1,192,224
—, —, —, —, sugar for, 1,381,387
—, —, —, —, sulfuric acid for, 1,215,907; 1,228,546; 1,228,547; 1,228,551; 1,303,513; 1,342,953; 1,381,387; 1,427,970; 1,439,994; 1,454,078; 1,498,359; 1,498,866; 1,500,076; 1,516,373
—, —, —, —, talc for, 1,427,970
—, —, —, —, tin for, 1,175,954
—, —, —, —, tin wire for, 1,315,032
—, —, —, —, wood for, 1,484,928
—, —, —, —, zinc for, 1,175,954; 1,350,956; 1,516,373
—, —, —, —, zinc wire for, 1,315,032
—, —, —, melting of, apparatus for, 1,513,875
—, —, —, —, process for, 1,513,875
—, —, —, nickel in, 1,373,734
—, —, —, nickel hydroxide in, 1,373,734
—, —, —, nickel (sesqui) oxide in, 1,373,733
—, —, —, preparing, 1,454,078
—, —, —, scrap, lead, recovery of from, 1,515,616
—, —, —, —, melting of, apparatus for, 1,515,616
—, —, —, —, —, process for, 1,515,616
—, —, —, zinc coating, 1,366,489
—, —, —, zinc preparing, 1,399,995
—, —, —, zinc sulfate coating for, 1,304,852
—, —, electrolyte for, 1,421,212; 1,429,830
—, —, —, alum as, 1,454,078; 1,468,957; 1,517,660
—, —, —, aluminum-potassium sulfate as, 1,454,078
—, —, —, boric acid in, 1,362,295
—, —, —, calcium sulfate in, 1,505,993

Battery, storage, electrolyte for, colloidal silica in, 1,362,295
—, —, —, congealed for, mfr. of, ammonium sulfate for, 1,183,009
—, —, —, —, —, potassium silicate for, 1,183,009
—, —, —, —, —, process for, 1,183,009
—, —, —, —, —, sodium silicate for, 1,183,009
—, —, —, —, —, sulfuric acid for, 1,183,009
—, —, —, copper perchlorate in, 1,425,163
—, —, —, corn starch in, 1,505,993
—, —, —, dyestuff for, 1,468,957
—, —, —, formaldehyde in, 1,505,993
—, —, —, formula, sulfuric acid 33⅓%, lubricating oil 66⅔%, 1,459,659
—, —, —, gelatinized, for, 1,417,007
—, —, —, glass, sodium silicate and sulfuric acid for preparing, 1,389,750
—, —, —, glycerol for, 1,468,957; 1,517,660
—, —, —, iron sulfate in, 1,517,660
—, —, —, lead perchlorate in, 1,425,163
—, —, —, lithium hydroxide for, 1,299,693
—, —, —, lubricating oil in, 1,459,659
—, —, —, magnesium sulfate for, 1,468,957
—, —, —, mfr. of, 1,374,916
—, —, —, —, alum for 1,483,885
—, —, —, —, asbestos for, 1,207,521; 1,213,182
—, —, —, —, asbestos, Swedish, for, 1,213,182
—, —, —, —, cork for, 1,213,182
—, —, —, —, infusorial earth for, 1,213,182
—, —, —, —, lead sulfate for, 1,487,109
—, —, —, —, magnesium sulfate for, 1,483,885
—, —, —, —, potash for, 1,213,182
—, —, —, —, process for, 1,207,521; 1,213,182; 1,483,885; 1,487,109
—, —, —, —, sodium chloride for, 1,487,109
—, —, —, —, sodium silicate for, 1,207,521; 1,213,182
—, —, —, —, sodium sulfate for, 1,487,109
—, —, —, —, sulfuric acid for, 1,207,521; 1,213,182; 1,483,885; 1,487,109
—, —, —, mercury(ic) sulfate in, 1,421,217
—, —, —, non-fluid for, 1,403,462
—, —, —, oil, mineral, in, 1,421,217
—, —, —, plaster of Paris in, 1,374,916
—, —, —, potash in, 1,517,660
—, —, —, potassium hydroxide for, 1,299,693
—, —, —, potassium sulfate for, 1,468,957
—, —, —, preparation of, 1,437,343
—, —, —, pumice in, 1,362,295
—, —, —, soapstone in, 1,374,916
—, —, —, sodium hydroxide in, 1,299,693
—, —, —, sodium silicate in, 1,374,916; 1,416,195; 1,421,217
—, —, —, sodium silicate for preparing, 1,362,295
—, —, —, sodium sulfate for, 1,468,957
—, —, —, sodium tetraborate for preparing, 1,362,295
—, —, —, sulfuric acid in, 1,139,214; 1,374,916; 1,421,217; 1,459,659; 1,468,957; 1,475,434; 1,505,993; 1,517,660
—, —, —, sulfuric acid for preparing, 1,362,295
—, —, —, talc in, 1,374,916
—, —, —, titanic acid in, 1,139,214
—, —, —, titanium compound in, 1,139,214
—, —, —, titanium(ic) oxide in, 1,139,214
—, —, —, zinc oxide in, 1,517,660
Battery, storage, element for, mfr. of, process for, 1,158,491
—, —, —, —, rubber, hard, for, 1,158,491
—, —, Faure plates for, 1,375,317
—, —, fuller's earth in, 1,433,136
—, —, fumes from, neutralization of, apparatus for, 1,132,679; 1,139,053
—, —, —, —, process for, 1,132,679; 1,139,053
—, —, —, —, sodium carbonate for, 1,132,679; 1,139,053
—, —, gas removed from during charging of, process for, 1,275,007
—, —, graphite electrode in, 1,371,746
—, —, grid for, celluloid in, 1,364,011
—, —, —, mfr. of, 1,432,845
—, —, —, —, lead for, 1,478,708
—, —, —, —, lead oxide, PbO, for, 1,478,708
—, —, —, —, —, Pb_3O_4, for, 1,478,708
—, —, —, —, lead peroxide for, 1,478,708
—, —, —, —, lead sulfate for, 1,478,708
—, —, —, —, process for, 1,478,708
—, —, grid for, mfr. of, sulfuric acid for, 1,478,708
—, —, —, which may be shipped dry, 1,478,708
—, —, —, *see also Battery, storage, electrode for*
—, —, heat removed from during charging of, process for, 1,275,007
—, —, insulated support for, mfr. of, glass for, 1,179,395
—, —, —, —, porcelain for, 1,179,395
—, —, —, —, process for, 1,179,395
—, —, insulators for, construction of, 1,415,139
—, —, iron electrode for, 1,167,485; 1,371,746; 1,388,656
—, —, iron in negative element for, 1,283,779
—, —, iron oxide electrode for, 1,167,485; 1,371,746; 1,388,656
—, —, iron oxide in negative element for, 1,283,779
—, —, jar for, asphalt in composition for, 1,276,481
—, —, —, gum in composition for, 1,276,481
—, —, —, hydrocarbon, acetylene, in composition for, 1,276,481
—, —, —, hydrocarbon, olefin, in composition for, 1,276,481
—, —, —, —, paraffin, in composition for, 1,276,481
—, —, —, mfr. of, process for, 1,152,246; 1,152,247
—, —, —, naphthalene brom-chlorides in composition for, 1,276,481
—, —, —, naphthalene bromides in composition for, 1,276,481
—, —, —, naphthalene chlorides in composition for, 1,276,481
—, —, —, naphthalene halide in composition for, 1,276,481
—, —, —, naphthalene tetrabromide in composition for, 1,276,481
—, —, —, naphthalene tetrachloride in composition for, 1,276,481
—, —, —, neutral oil in composition for, 1,276,481
—, —, —, petroleum in composition for, 1,276,481
—, —, —, resin in composition for, 1,276,481
—, —, —, wax in composition for, 1,276,481
—, —, kieselguhr in, 1,405,627; 1,433,136
—, —, lead for, 1,364,469
—, —, lead, regenerating, process for, 1,449,833

Battery, storage, lead-antimony alloy grid in, 1,328,394
—, —, lead electrode for, lead oxide made from, 1,492,241
—, —, —, mfr. of, process for, 1,175,370; 1,492,875
—, —, —, —, sulfuric acid for, 1,175,370
—, —, —, —, titanic acid for, 1,175,370
—, —, —, —, titanium compound for, 1,175,370
—, —, —, recovery of material from, process for, 1,492,241
—, —, —, regeneration of, alkali bisulfate for, 1,147,261
—, —, —, —, alkali sulfate for, 1,147,261
—, —, —, —, process for, 1,147,261
—, —, —, —, sodium bisulfate for, 1,147,261
—, —, —, —, sodium sulfate for, 1,147,261
—, —, —, —, sulfuric acid for, 1,147,261
—, —, lead grid for, aluminum salt coating for, 1,304,852
—, —, —, bismuth salt coating for, 1,304,852
—, —, —, cadmium salt coating for, 1,304,852
—, —, —, exposure to air effect of on, 1,304,852
—, —, —, mfr. of, ammonium citrate for, 1,304,192
—, —, —, —, ammonium hydroxide for, 1,304,192
—, —, —, —, ammonium sulfate for, 1,304,192
—, —, —, —, ammonium tartrate for, 1,304,192
—, —, —, —, electrolytic reduction of, 1,304,192
—, —, —, —, lead sulfate for, 1,304,192
—, —, —, —, sulfuric acid for, 1,304,192
—, —, —, zinc coating for, 1,304,852
—, —, —, zinc sulfate coating for, 1,304,852
—, —, lead peroxide electrode in, 1,371,746
—, —, lead plates for, preparing, 1,375,317
—, —, lead sponge for, 1,450,533
—, —, lead sulfate in, 1,433,136
—, —, lime packing in, 1,371,746
—, —, litharge in, 1,371,746
—, —, litharge on plates for, 1,375,317
—, —, lithium hydroxide in electrolyte for, 1,167,485
—, —, magnesia packing in, 1,371,746
—, —, magnesium in mfr. of, 1,451,003
—, —, mfr. of, 1,451,003
—, —, —, acid for, 1,155,046; 1,155,047
—, —, —, alkali earth sulfate for, 1,512,485
—, —, —, alum for, 1,190,880
—, —, —, aluminum for, 1,366,010
—, —, —, aluminum alloy cadmium in, for, 1,366,010
—, —, —, aluminum electrode for, 1,173,651; 1,190,880; 1,499,907
—, —, —, aluminum sulfate for, 1,190,880; 1,512,485
—, —, —, antimony, lead alloy contg., for, 1,155,047; 1,279,508; 1,375,012; 1,486,430; 1,503,060
—, —, —, apparatus for, 1,327,336; 1,485,282
—, —, —, asbestos for, 1,486,430
—, —, —, asphalt for, 1,375,012; 1,500,221; 1,500,222
—, —, —, beaver hair for, 1,481,947
—, —, —, bituminous material for, 1,504,312; 1,513,913
—, —, —, borax for, 1,499,907
—, —, —, cadmium, aluminum alloy contg., for, 1,366,010
Battery, storage, mfr. of, camel hair for, 1,481,947
—, —, —, carbon for, 1,161,398
—, —, —, celluloid for, 1,339,835; 1,366,010; 1,500,221; 1,500,222; 1,504,312; 1,506,391; 1,506,392
—, —, —, celluloid cement for, 1,506,391; 1,506,392
—, —, —, celluloid container for, 1,175,280
—, —, —, cellulose for, 1,500,221
—, —, —, charcoal for, 1,175,280; 1,518,814
—, —, —, chromium for, 1,366,010
—, —, —, chromium alloy for, 1,366,010
—, —, —, cony hair for, 1,481,947
—, —, —, copper for, 1,366,010
—, —, —, copper alloy for, 1,366,010
—, —, —, copper electrode for, 1,138,220
—, —, —, copper oxide electrode for, 1,138,363
—, —, —, cork for, 1,366,010
—, —, —, coyou hair for, 1,481,947
—, —, —, dog hair for, 1,481,947
—, —, —, fabric for, 1,251,412
—, —, —, felt for, 1,251,412
—, —, —, fiber, animal, for, 1,251,412
—, —, —, gilsonite for, 1,475,434
—, —, —, glass for, 1,389,750; 1,485,282; 1,502,312
—, —, —, glass wool for, 1,486,430; 1,500,221; 1,500,222
—, —, —, glycerol for, 1,496,725; 1,512,485
—, —, —, goat hair for, 1,481,947
—, —, —, graphite for, 1,518,814
—, —, —, gums for, 1,155,046; 1,155,047
—, —, —, hair, bovine, for, 1,481,947
—, —, —, —, canine, for, 1,481,947
—, —, —, —, equine, for, 1,481,947
—, —, —, —, human, for, 1,481,947
—, —, —, —, mammalian, for, 1,481,947
—, —, —, horse hair for, 1,481,947
—, —, —, hydrocarbon for, 1,512,485
—, —, —, iron, cast, heat-expanded for, 1,518,814
—, —, —, iron electrode for, 1,518,814
—, —, —, lampblack for, 1,196,817
—, —, —, lead for, 1,279,508; 1,366,010; 1,486,430; 1,500,221; 1,500,222; 1,500,448; 1,504,312
—, —, —, lead, battery, for, 1,279,508
—, —, —, —, red, for, 1,279,508; 1,366,010; 1,500,448; 1,504,312; 1,506,391; 1,506,392; 1,518,814
—, —, —, lead acetate for, 1,138,220
—, —, —, lead alloy, antimony in, for, 1,155,047; 1,375,012; 1,486,430; 1,503,060; 1,503,070
—, —, —, lead electrode for, 1,138,220; 1,173,651; 1,251,412; 1,371,746; 1,375,012; 1,416,195; 1,496,828; 1,499,907; 1,506,391; 1,506,392; 1,512,485; 1,518,814
—, —, —, lead oxide for, 1,251,412; 1,481,947; 1,486,430; 1,518,814
—, —, —, lead oxide, PbO, for, 1,504,312
—, —, —, lead peroxide for, 1,161,398; 1,375,012; 1,506,391
—, —, —, lead sulfate for, 1,138,220; 1,251,412
—, —, —, limestone for, 1,496,725
—, —, —, linene for, 1,486,430
—, —, —, litharge for, 1,246,595; 1,366,010; 1,500,448; 1,506,391; 1,506,392; 1,518,814
—, —, —, lithium sulfate for, 1,451,003

Battery, storage, mfr. of, llama hair for, 1,481,947
—, —, —, magnesium sulfate for, 1,161,398
—, —, —, mercury for, 1,138,220
—, —, —, mercury(ic) nitrate for, 1,481,947
—, —, —, mercury(ic) sulfate for, 1,512,485
—, —, —, mink hair for, 1,481,947
—, —, —, muskrat hair for, 1,481,947
—, —, —, negative element for, 1,299,693
—, —, —, nickel oxide for, 1,366,010
—, —, —, nitric acid for, 1,138,220; 1,161,398; 1,191,070
—, —, —, nutria for, 1,481,947
—, —, —, ox hair for, 1,481,947
—, —, —, oxygen for, 1,190,880; 1,191,070
—, —, —, paper, blotting, for, 1,375,012
—, —, —, —, compressed, for, 1,504,312
—, —, —, —, paraffin coated, for, 1,175,280
—, —, —, paper container for, 1,175,280
—, —, —, paraffin for, 1,513,913
—, —, —, paste-board container for, 1,175,280
—, —, —, phenol aldehyde condensate for, 1,447,782; 1,500,221; 1,500,222
—, —, —, pitch for, 1,175,280; 1,500,221; 1,500,222
—, —, —, plaster of Paris for, 1,175,280
—, —, —, platinum, steel coated with, for, 1,190,880
—, —, —, process for, 1,136,075; 1,138,220; 1,141,526; 1,155,046; 1,155,047; 1,161,398; 1,164,746; 1,167,485; 1,173,651; 1,175,280; 1,190,880; 1,191,070; 1,196,817; 1,217,738; 1,217,739; 1,239,835; 1,246,595; 1,251,412; 1,255,536; 1,279,508; 1,327,234; 1,327,336; 1,327,650; 1,328,357; 1,328,358; 1,328,359; 1,328,393; 1,329,125; 1,339,835; 1,364,299; 1,366,010; 1,375,012; 1,389,750; 1,416,195; 1,437,343; 1,440,023; 1,440,024; 1,474,313; 1,475,434; 1,481,178; 1,481,947; 1,485,282; 1,486,430; 1,494,059; 1,496,725; 1,496,829; 1,499,907; 1,500,221; 1,500,222; 1,500,448; 1,503,060; 1,503,070; 1,503,098; 1,504,312; 1,506,391; 1,506,392; 1,511,230; 1,511,826; 1,512,485; 1,513,913; 1,518,814; 1,520,587
—, —, —, pumice for, 1,155,047; 1,161,398
—, —, —, radio-active material for, 1,217,739
—, —, —, radium bromide for, 1,217,739
—, —, —, radium chloride for, 1,217,739
—, —, —, radium salt for, 1,217,739
—, —, —, radium sulfate for, 1,217,739
—, —, —, "reduced oil" for, 1,512,485
—, —, —, rubber for, 1,008,525; 1,239,835; 1,485,282; 1,500,221; 1,500,222; 1,503,060; 1,503,070; 1,503,098; 1,506,391; 1,506,392; 1,513,913
—, —, —, rubber, hard, for, 1,155,046; 1,155,047; 1,196,817; 1,366,010
—, —, —, rubber separator for, 1,141,526; 1,496,725; 1,496,829; 1,511,826
—, —, —, sand for, 1,155,047
—, —, —, sawdust for, 1,375,012
—, —, —, sheep wool for, 1,481,947
—, —, —, silica for, 1,496,725
—, —, —, silicate for, 1,500,221
—, —, —, silk for, 1,251,412
—, —, —, silver chloride for, 1,161,398
—, —, —, sodium bicarbonate for, 1,437,343
Battery, storage, mfr. of, sodium bisulfate for, 1,190,880; 1,251,412
—, —, —, sodium borate for, 1,437,343
—, —, —, sodium hydroxide for, 1,173,651; 1,481,947
—, —, —, sodium salicylate for, 1,437,343
—, —, —, sodium silicate for, 1,008,525; 1,161,398; 1,389,750; 1,416,195; 1,496,725; 1,506,391; 1,506,392
—, —, —, sodium sulfate for, 1,190,880
—, —, —, sodium sulfite for, 1,481,947
—, —, —, steel, platinum coated, for, 1,190,880
—, —, —, sugar for, 1,246,595
—, —, —, sulfur dioxide for, 1,173,651
—, —, —, sulfuric acid for, 1,138,220; 1,161,398; 1,175,280; 1,190,880; 1,191,070; 1,246,595; 1,251,412; 1,279,508; 1,375,012; 1,389,750; 1,416,195; 1,437,343; 1,496,725; 1,500,221; 1,500,222; 1,500,448; 1,506,391; 1,506,392; 1,512,485
—, —, —, tar for, 1,175,280
—, —, —, tripoli for, 1,155,047
—, —, —, turpentine for, 1,416,195
—, —, —, wood for, 1,364,299; 1,366,010; 1,503,060; 1,503,070; 1,503,098; 1,506,391; 1,506,392
—, —, —, wood fiber for, 1,173,651
—, —, —, wood pulp for, 1,375,012
—, —, —, wood separator for, 1,141,526; 1,155,046; 1,496,725; 1,511,826
—, —, —, wool for, 1,481,947
—, —, —, wool, felters', for, 1,481,947
—, —, —, wool, "pulled," for, 1,481,947
—, —, —, zinc dust for, 1,138,220
—, —, —, zinc electrode for, 1,138,220; 1,190,880; 1,191,070; 1,512,485
—, —, —, zinc sulfate for, 1,138,220; 1,191,070; 1,512,485
—, —, name plate for, mfr. of, antimony, lead alloy contg., for, 1,492,464
—, —, —, —, asphalt for, 1,492,464
—, —, —, —, lead for, 1,492,464
—, —, —, —, lead alloy, antimony in, for, 1,492,464
—, —, —, —, —, tin in, 1,492,464
—, —, —, —, mfr. of, nitric acid for, 1,492,464
—, —, —, —, process for, 1,492,464
—, —, —, —, sulfuric acid for, 1,492,464
—, —, —, —, tin, lead alloy contg., for, 1,492,464
—, —, negative electrode for, mfr. of, celluloid for, 1,366,491
—, —, —, —, copper for, 1,366,489
—, —, —, —, magnesium salt for, 1,366,489
—, —, —, —, magnesium sulfate for, 1,366,489
—, —, —, —, mercury salt for, 1,366,489
—, —, —, —, mercury(ic) sulfate for, 1,366,489
—, —, —, —, process for, 1,366,489; 1,366,491
—, —, —, —, shellac for, 1,366,491
—, —, —, —, varnish for, 1,366,491
—, —, —, —, zinc for, 1,366,489; 1,366,491
—, —, —, —, zinc salts for, 1,366,489
—, —, negative element for, iron for, 1,299,693
—, —, —, iron(ic) oxide for, 1,299,693
—, —, —, mercury for, 1,299,693
—, —, —, tin in, 1,299,693
—, —, —, tin(ous) oxide in, 1,299,693

Battery, storage, negative plate for, drying of in carbon dioxide, 1,310,871
—, —, —, drying of in hydrogen, 1,310,871
—, —, —, drying of in nitrogen, 1,310,871
—, —, —, mfr. of, 1,304,192
—, —, —, —, alkali earth persulfate for, 1,164,464
—, —, —, —, alloy for, 1,475,503
—, —, —, —, antimony-lead grid for, 1,284,425
—, —, —, —, barium nitrate for, 1,164,464
—, —, —, —, barium persulfate for, 1,164,464
—, —, —, —, barium sulfate for, 1,164,464
—, —, —, —, calcium persulfate for, 1,164,464
—, —, —, —, hydrogen dioxide for, 1,284,426
—, —, —, —, lead for, 1,164,464
—, —, —, —, lead, red, for, 1,284,426
—, —, —, —, lead oxide for, 1,164,464
—, —, —, —, lead peroxide for, 1,164,464
—, —, —, —, litharge for, 1,284,425; 1,284,426
—, —, —, —, magnesium sulfate for, 1,284,425
—, —, —, —, process for, 1,164,464; 1,284,426
—, —, —, —, sugar for, 1,164,464
—, —, —, —, sulfuric acid for, 1,164,464; 1,284,425; 1,284,426
—, —, nickel electrode in. 1,371,746; 1,388,656
—, —, nickel flake in electrode for, 1,167,485
—, —, nickel hydroxide electrode for, 1,167,485; 1,388,656; 1,402,751
—, —, nickel hydroxide-nickel flake electrode for, regeneration of, alkali for, 1,488,480; 1,488,481
—, —, —, —, glucose for, 1,488,480; 1,488,481
—, —, —, —, glycerol for, 1,488,480; 1,488,481
—, —, —, regeneration of, hydrochloric acid for, 1,488,481
—, —, —, —, process for, 1,488,480; 1,488,481
—, —, —, —, sodium hydroxide for, 1,488,480; 1,488,481
—, —, —, —, sodium hyposulfite for, 1,488,481
—, —, —, —, sugar for, 1,488,480; 1,488,481
—, —, —, —, tartrate for, 1,488,481
—, —, nickel and nickel hydroxide in positive electrode of, 1,283,779
—, —, nickel oxide in electrode for, 1,167,485
—, —, ozone produced by, 1,436,873
—, —, paraffin, elements sealed with for dry shipment of 1,468,259
—, —, paste for electrodes for, mfr., 1,416,787
—, —, phosphoric acid in, 1,433,136
—, —, Plante plates for, 1,375,317
—, —, plaster of Paris in, 1,433,136
—, —, plate for, 1,403,394
—, —, —, aluminum coated with lead as, 1,362,739
—, —, —, animal hair in, 1,405,702
—, —, —, celluloid in, 1,467,749
—, —, —, celluloid for binding, 1,340,636
—, —, —, celluloid for coating edges of, 1,429,300
—, —, —, cellulose in, 1,432,937
—, —, —, drying of, 1,477,354
—, —, —, keratin for, 1,405,703
—, —, —, lead carbonate in, 1,467,749
—, —, —, lead dioxide in, 1,467,749
—, —, —, lead oxide in, 1,379,900
—, —, —, lead sulfate in, 1,467,749
—, —, —, mfr. of, 1,342,953; 1,374,076; 1,381,387
Battery, storage, plate for, mfr. of, charcoal for, 1,133,641
—, —, —, —, clay, burnt, for, 1,133,641
—, —, —, —, lead, red, for, 1,133,641
—, —, —, —, —, white, for, 1,133,641
—, —, —, —, lead acetate for, 1,133,641
—, —, —, —, lead chloride for, 1,133,641
—, —, —, —, lead oxide for, 1,133,641
—, —, —, —, lead sulfate for, 1,133,641
—, —, —, —, lead sulfide for, 1,133,641
—, —, —, —, litharge for, 1,133,641
—, —, —, —, paper for, 1,133,641
—, —, —, —, potato for, 1,133,641
—, —, —, —, process for, 1,133,641; 1,197,737
—, —, —, —, sulfuric acid for, 1,133,641
—, —, —, —, vegetable substance for, 1,133,641
—, —, —, potassium sulfate (acid) in, 1,467,749
—, —, —, preparing, acetone in, 1,467,749
—, —, —, —, benzene in, 1,467,749
—, —, —, —, sulfur chloride in, 1,467,749
—, —, —, restoring, heat for, 1,430,167
—, —, —, rubber in, 1,467,749
—, —, —, sodium sulfate (acid) in, 1,467,749
—, —, —, treating, 1,402,631
—, —, —, wood in, 1,379,900; 1,432,937
—, —, —, wood dust and lead oxide in, 1,432,508
—, —, —, wool in, 1,405,702
—, —, —, *see also Battery, storage, electrode for*
—, —, —, *see also Battery, storage, grid for*
—, —, plate envelope for, mfr. of, process for, 1,325,710
—, —, —, —, rubber for, 1,325,710
—, —, —, —, zinc for, 1,325,710
—, —, porous plates for, mfr. of, 1,403,036
—, —, positive electrode for, mfr. of, process for, 1,440,023; 1,440,024
—, —, potassium hydroxide electrolyte for, 1,167,485; 1,371,746
—, —, potassium sulfate in mfr. of, 1,451,003
—, —, primary and, combined, construction of, 1,334,849
—, —, red lead on plates for, 1,375,317
—, —, red lead electrode in, 1,371,746
—, —, rejuvenator for, acetic acid in, 1,468,341
—, —, —, copper sulfate in, 1,468,341
—, —, —, graphite in, 1,468,341
—, —, —, gypsum in, 1,468,341
—, —, —, lead oxide, PbO in, 1,468,341
—, —, —, magnesium oxide in, 1,468,341
—, —, —, magnesium sulfate in, 1,468,341
—, —, —, oil, empyreumatic in, 1,468,341
—, —, —, paraffin in, 1,468,341
—, —, —, sodium chloride in, 1,468,341
—, —, —, sulfuric acid in, 1,468,341
—, —, —, zinc oxide in, 1,468,341
—, —, restoring of, process for, 1,477,354
—, —, rubber used in, 1,415,275
—, —, rubber, hard, separator for, 1,164,746
—, —, sand for fixing electrolyte in, 1,371,746
—, —, self-filling, mfr. of, process for, 1,327,121
—, —, semi-solid electrolyte for, 1,433,136
—, —, separator for, 1,362,737
—, —, —, asbestos impregnated with barium sulfate as, 1,262,228
—, —, —, barium sulfate, asbestos impregnated with, as, 1,262,228

Battery, storage, separator for, barium sulfate, wood impregnated with, as, 1,262,228
—, —, —, carbon as, 1,246,595
—, —, —, celluloid in, 1,357,378
—, —, —, cocoa-nut fiber for, 1,323,796
—, —, —, construction of, 1,485,707
—, —, —, "filtros" as, 1,419,396
—, —, —, keratin in, 1,405,703
—, —, —, lead compounds for impregnating, 1,398,065
—, —, —, mfr. of, 1,390,355; 1,403,577; 1,415,683; 1,416,761; 1,432,938; 1,432,939
—, —, —, —, acetone for, 1,500,220
—, —, —, —, alcohol, denatured, for, 1,520,889
—, —, —, —, alkali sulfite for, 1,502,455
—, —, —, —, aluminum silicates for, 1,200,345
—, —, —, —, ammonium carbonate for, 1,463,864
—, —, —, —, ammonium sulfate for, 1,463,864
—, —, —, —, apparatus for, 1,366,070
—, —, —, —, asbestos for, 1,206,983; 1,403,577; 1,499,863
—, —, —, —, asphalt for, 1,366,223; 1,500,220
—, —, —, —, barium hydroxide for, 1,228,368
—, —, —, —, barium salt for, 1,228,368
—, —, —, —, barium silicate for, 1,495,568
—, —, —, —, barium sulfate for, 1,228,368; 1,495,568
—, —, —, —, bass wood for, 1,200,682
—, —, —, —, benzene for, 1,243,372; 1,490,204; 1,500,220
—, —, —, —, bitumen for, 1,500,220
—, —, —, —, bituminous material for, 1,484,927
—, —, —, —, bone for, 1,200,345
—, —, —, —, calcium carbonate for, 1,463,864
—, —, —, —, calcium sulfate for, 1,285,303
—, —, —, —, camphor for, 1,463,864; 1,520,889
—, —, —, —, camphor substitute for, 1,520,889
—, —, —, —, canvas for, 1,366,223
—, —, —, —, carbon for, 1,132,183
—, —, —, —, carbon bisulfide for, 1,500,220
—, —, —, —, cardboard for, 1,403,577
—, —, —, —, cedar for, 1,130,640; 1,492,260
—, —, —, —, cedar, Port Orford, for, 1,498,865
—, —, —, —, celite B.H for, 1,285,303
—, —, —, —, celluloid for, 1,132,183; 1,217,738; 1,217,739; 1,218,967; 1,243,368; 1,243,370; 1,247,122; 1,247,123; 1,357,376; 1,364,493; 1,366,070; 1,463,864; 1,484,927; 1,492,260; 1,500,220; 1,506,391; 1,506,392; 1,520,889
—, —, —, —, celluloid, sand coated with, for, 1,132,183
—, —, —, —, celluloid substitute for, 1,463,864
—, —, —, —, cellulose for, 1,200,345; 1,217,573; 1,488,721; 1,502,455
—, —, —, —, cellulose acetate for, 1,463,864
—, —, —, —, cellulose nitrate for, 1,463,864; 1,484,927; 1,520,889
—, —, —, —, chalk for, 1,200,345
—, —, —, —, charcoal for, 1,463,864
—, —, —, —, cherry wood for, 1,200,682
—, —, —, —, clay, ball, for, 1,200,345
—, —, —, —, —, china, for, 1,200,345
—, —, —, —, cloth for, 1,218,967; 1,243,368; 1,243,369; 1,243,370; 1,243,371; 1,243,372; 1,366,223; 1,394,466; 1,403,577
—, —, —, —, coniferous wood for, 1,130,640
—, —, —, —, cork for, 1,217,739
Battery, storage, separator for, mfr. of, cork dust for, 1,463,864
—, —, —, —, Cornish stone for, 1,200,345
—, —, —, —, cotton for, 1,484,927
—, —, —, —, cotton fabric for, 1,243,370
—, —, —, —, cotton fiber for, 1,463,864
—, —, —, —, cotton fly for, 1,463,864
—, —, —, —, cotton lint for, 1,463,864
—, —, —, —, cotton linters for, 1,500,220
—, —, —, —, cypress for, 1,492,260
—, —, —, —, earthenware for, 1,200,345
—, —, —, —, ebonite for, 1,488,721
—, —, —, —, fabric for, 1,243,368; 1,243,370; 1,243,371; 1,243,372; 1,484,927
—, —, —, —, fabric, rubber coated, for, 1,243,371
—, —, —, —, feathers for, 1,502,455
—, —, —, —, feldspar for, 1,200,345
—, —, —, —, felt for, 1,366,223
—, —, —, —, fiber for, 1,218,967; 1,243,368; 1,243,369; 1,243,370; 1,243,371; 1,243,372; 1,285,303
—, —, —, —, fibrous material for, 1,394,466
—, —, —, —, fir, Douglas, for, 1,130,640
—, —, —, —, fish scales for, 1,502,455
—, —, —, —, flint for, 1,200,345
—, —, —, —, gasolene for, 1,499,863
—, —, —, —, glass for, 1,217,739; 1,366,223
—, —, —, —, glass wool for, 1,486,430; 1,488,721; 1,495,568
—, —, —, —, glue for, 1,394,466
—, —, —, —, gum, artificial, for, 1,366,223
—, —, —, —, hair for, 1,218,967; 1,243,368; 1,495,568; 1,502,455
—, —, —, —, haircloth for, 1,243,368
—, —, —, —, hoof, animal, for, 1,502,455
—, —, —, —, horn for, 1,502,455
—, —, —, —, India rubber for, 1,132,183
—, —, —, —, kaolin for, 1,132,183; 1,200,345
—, —, —, —, keratin for, 1,502,455
—, —, —, —, kieselguhr for, 1,285,303; 1,463,864
—, —, —, —, lead for, 1,364,493
—, —, —, —, lead chloride for, 1,398,065
—, —, —, —, lead fluosilicate for, 1,398,065
—, —, —, —, lignin for, 1,217,573
—, —, —, —, linseed oil for, 1,490,204
—, —, —, —, lynoxin for, 1,490,204
—, —, —, —, maple for, 1,492,260
—, —, —, —, metal, enameled, for, 1,217,739
—, —, —, —, metal gauze for, 1,243,368; 1,243,369
—, —, —, —, mica for, 1,217,739
—, —, —, —, mineral wool for, 1,206,983
—, —, —, —, nails, animal, for, 1,502,455
—, —, —, —, paper for, 1,366,223; 1,484,927
—, —, —, —, paper, blotting for, 1,132,183
—, —, —, —, paraffin for, 1,194,818
—, —, —, —, phenol aldehyde condensate for, 1,206,983; 1,217,739; 1,243,368; 1,366,223; 1,484,927; 1,495,568
—, —, —, —, pine, white, for 1,130,640
—, —, —, —, porcelain for, 1,132,183
—, —, —, —, potassium carbonate for, 1,463,864
—, —, —, —, potassium permanganate for, 1,515,504
—, —, —, —, potassium sulfate for, 1,463,864

Battery, storage, separator, mfr. of, pottery for, 1,217,739
—, —, —, —, process for, 1,130,640; 1,132,183; 1,185,058; 1,194,818; 1,195,924; 1,197,312; 1,200,345; 1,200,682; 1,206,983; 1,217,573; 1,217,738; 1,217,739; 1,218,967; 1,228,368; 1,228,369; 1,243,368; 1,243,369; 1,243,370; 1,243,371; 1,243,372; 1,245,080; 1,246,595; 1,247,122; 1,247,123; 1,285,303; 1,329,180; 1,342,611; 1,357,376; 1,364,493; 1,366,070; 1,366,223; 1,375,550; 1,375,740; 1,394,466; 1,398,065; 1,403,577; 1,410,595; 1,484,927; 1,488,721; 1,490,204; 1,492,260; 1,495,568; 1,499,863; 1,500,220; 1,500,287; 1,502,455; 1,506,391; 1,506,392; 1,507,076; 1,515,504; 1,515,738; 1,520,889
—, —, —, —, radio-active material for, 1,217,738; 1,217,739
—, —, —, —, radium bromide for, 1,217,738; 1,217,739
—, —, —, —, radium chloride for, 1,217,738; 1,217,739
—, —, —, —, radium salt for, 1,217,738; 1,217,739
—, —, —, —, radium sulfate for, 1,217,738; 1,217,739
—, —, —, —, resin, artificial, for, 1,366,223
—, —, —, —, rubber for, 1,132,183; 1,185,058; 1,195,924; 1,197,312; 1,217,739; 1,243,368; 1,243,369; 1,243,370; 1,243,371; 1,243,372; 1,245,080; 1,329,180; 1,342,611; 1,357,376; 1,364,493; 1,366,070; 1,394,466; 1,403,577; 1,484,927; 1,495,568; 1,499,863; 1,500,220; 1,502,455; 1,506,391; 1,506,392
—, —, —, —, rubber, hard, for, 1,218,967
1,410,595; 1,492,260; 1,515,738
—, —, —, —, rubber substitute for, 1,366,223
—, —, —, —, sand, celluloid coated, for, 1,132,183;
—, —, —, —, sawdust for, 1,132,183; 1,499,863; 1,502,455
—, —, —, —, scrim for, 1,218,967; 1,243,369
—, —, —, —, silica for, 1,217,739; 1,484,927
—, —, —, —, silicate for, 1,495,568
—, —, —, —, silicic gel for, 1,495,568
—, —, —, —, slate for, 1,375,550
—, —, —, —, sodium bisulfide for, 1,515,504
—, —, —, —, sodium carbonate for, 1,463,864
—, —, —, —, sodium hydroxide for, 1,217,573; 1,507,076; 1,515,504
—, —, —, —, sodium plumbate for, 1,398,065
—, —, —, —, sodium silicate for, 1,495,568; 1,500,220
—, —, —, —, sodium sulfate for, 1,463,864; 1,495,568
—, —, —, —, sodium sulfite for, 1,502,455
—, —, —, —, spun glass for, 1,375,740
—, —, —, —, steel wire for, 1,243,368
—, —, —, —, strontium hydroxide for, 1,228,369
—, —, —, —, strontium salt for, 1,228,369
—, —, —, —, strontium sulfate for, 1,228,369
—, —, —, —, sulfite screenings for, 1,495,568
—, —, —, —, sugar for, 1,246,595; 1,507,076
—, —, —, —, sulfur for, 1,463,864; 1,500,220
—, —, —, —, sulfur chloride, S_2Cl_2, for, 1,500,220
—, —, —, —, sulfuric acid for, 1,200,682; 1,228,368; 1,228,369; 1,243,368; 1,495,568
Battery, storage, separator, mfr. of, thread for, 1,218,967; 1,243,368; 1,243,369; 1,243,370; 1,243,371; 1,243,372
—, —, —, —, tricresylphosphate for, 1,463,864
—, —, —, —, triphenylphosphate for, 1,463,864
—, —, —, —, turpentine for, 1,490,204
—, —, —, —, water for, 1,130,640; 1,490,204
—, —, —, —, wood for, 1,132,183; 1,185,058; 1,194,818; 1,195,924; 1,200,345; 1,200,682; 1,217,573; 1,217,739; 1,218,967; 1,228,368; 1,228,369; 1,243,368; 1,243,369; 1,243,370; 1,243,371; 1,243,372; 1,329,180; 1,366,070; 1,366,223; 1,394,466; 1,398,065; 1,403,577; 1,488,721; 1,492,260; 1,500,220; 1,502,455; 1,506,391; 1,506,392; 1,507,076; 1,515,504
—, —, —, —, wood dust for, 1,394,466
—, —, —, —, wood pulp for, 1,217,573; 1,463,864; 1,492,260
—, —, —, —, wood pulp, sulfite, for, 1,500,220
—, —, —, —, wool for, 1,502,455
—, —, —, preparing, 1,398,065
—, —, —, rubber in, 1,357,378; 1,439,155; 1,394,466
—, —, —, rubber solution for impregnating, 1,328,420
—, —, —, slate, 1,375,550
—, —, —, starched fibers in, 1,357,379
—, —, —, tripoli in, 1,279,074; Re-15,067
—, —, —, wood, fermentation process of preparing, 1,380,354
—, —, —, wood dust in, 1,394,466
—, —, —, wood impregnated with barium sulfate as 1,262,228
—, —, —, wood treated with ammonia and steam for, 1,370,064
—, —, —, wood treated with sodium silicate for producing, 1,392,232
—, —, —, wood treated with, sulfuric acid for, 1,358,207; 1,380,353
—, —, shipment of dry charged, process for, 1,468,259
—, —, silicon dioxide in, 1,433,136
—, —, silver electrode in, 1,371,746
—, —, sodium hydroxide electrolyte for, 1,167,485; 1,371,746
—, —, sodium phosphate electrolyte for, 1,385,305
—, —, sodium sulfate in mfr. of, 1,451,003
—, —, stabilizing negative lead electrodes for, 1,439,994
—, —, storing in dry condition, 1,329,181
—, —, sulfuric acid in electrolyte for, 1,385,305
—, —, suspension of electrode plates in, 1,498,136
—, —, tanks for, synthetic resin suitable for, mfr. of, 1,424,137
—, —, temperature indicating device for, mfr. of, acetone for, 1,374,857
—, —, —, —, benzene for, 1,374,857
—, —, —, —, carbon bisulfide for, 1,374,857
—, —, —, —, ethyl alcohol for, 1,374,857
—, —, —, —, furaldehyde for, 1,374,857
—, —, —, —, hexane for, 1,374,857
—, —, —, —, isobutyric acid for, 1,374,857
—, —, —, —, methyl alcohol for, 1,374,857
—, —, —, —, phenol for, 1,374,857
—, —, —, —, 2.4-pentanedione for, 1,374,857

Battery, storage, temperature indicating device for, mfr. of, process for, 1,374,857
—, —, —, —, propionitrile for, 1,374,857
—, —, —, —, propyl alcohol for, 1,374,857
—, —, —, —, resorcinol for, 1,374,857
—, —, —, —, salts for, 1,374,857
—, —, —, —, water for, 1,374,857
—, —, vent for, mfr. of, process for, 1,283,670
—, —, vent plug, mfr. of, fibrous material for, 1,506,216
—, —, —, —, gasolene for, 1,506,216
—, —, —, —, glass wool for, 1,506,216
—, —, —, —, grease for, 1,506,216
—, —, —, —, lubricating oil for, 1,506,216
—, —, —, —, oil for, 1,506,216
—, —, —, —, petrolatum for, 1,506,216
—, —, —, —, process for, 1,506,216
—, —, —, —, wax for, 1,506,216
—, —, waste, lead acetate made with, 1,148,062
—, —, —, lead formate made with, 1,148,062
—, —, —, lead nitrate made with, 1,148,062
—, —, —, lead oxide made with, 1,148,062
—, —, —, litharge made with, 1,148,062
—, —, —, pigment made with, 1,148,062
—, —, —, sodium sulfate made with, 1,148,062
—, —, wood in construction of, 1,443,321; 1,443,322
—, —, wood separators for, 1,363,754
—, —, wood separators for, mfr., 1,380,353; 1,380,354
—, —, —, treatment of, calcium hydroxide for, 1,498,865
—, —, —, —, process for, 1,498,865
—, —, —, —, sulfur dioxide for, 1,498,865
—, temperature indicator for, 1,374,857
—, testing, hydrometer for, 1,354,255
—, *transforming, see Transformer, electrolytic*
—, voltaic, mfr. of, copper for, 1,123,370
—, — , —, gold for, 1,123,370
—, —, —, insulation, electric, for, 1,123,370
—, —, —, process for, 1,123,370
—, —, —, silver for, 1,123,370
—, —, —, zinc for, 1,123,370
—, wet, copper electrode in, 1,276,604
—, —, copper sulfate as electrolyte for, 1,276,604
—, —, depolarization of, arsine generated during, 1,262,019
—, —, —, phosphine generated during, 1,262,020
—, —, *depolarizer for, see Battery, depolarizer for*
—, —, cobalt as electrode for, 1,258,265
—, —, construction of, process for, 1,258,265
—, —, iron as electrode for, 1,258,265
—, —, mfr. of, antimony arsenide electrode for, 1,262,019
—, —, —, antimony phosphide electrode for, 1,262,020
—, —, —, copper arsenic electrode for, 1,262,019
—, —, —, copper phosphide electrode for, 1,262,020
—, —, —, iron arsenide electrode for, 1,262,019
—, —, —, iron phosphide electrode for, 1,262,020
—, —, —, lead arsenic electrode for, 1,262,019
—, —, —, lead phosphide electrode for, 1,262,020
—, —, —, potassium hydroxide as electrolyte for, 1,262,019; 1,262,020
—, —, —, process for, 1,276,604
Battery, wet, mfr. of, sodium hydroxide as electrolyte for, 1,262,019; 1,262,020
—, —, —, sulfuric acid as electrolyte for, 1,262,019; 1,262,020
—, —, —, zinc electrode for, 1,262,019; 1,262,020
—, —, nickel as electrode for, 1,258,265
—, —, sulfuric acid as electrolyte for, 1,258,265
—, —, zinc electrode in, 1,276,604
—, *zinc-alkali-copper oxide type, see Battery, Lalande,*
—, zinc anode for, coating of, alkali hydroxide for, 1,484,783
—, —, —, aluminum oleate for, 1,484,783
—, —, —, benzene for, 1,484,783
—, —, —, oil for, 1,484,783
—, —, —, paraffin for, 1,484,783
—, —, —, process for, 1,484,783
—, —, —, sawdust for, 1,484,783
—, —, —, soap for, 1,484,783
—, —, —, soap, aluminum, for, 1,484,783
—, —, —, —, resin, for, 1,474,783
—, —, —, —, zinc, for, 1,484,783
—, —, —, zinc oleate for, 1,484,783
—, zinc chloride in, 1,464,838
—, zinc cup for, 1,464,838
—, zinc cup as electrode for, 1,375,305; 1,375,306
—, zinc electrode for, 1,289,030; 1,416,738
—, —, ammonium hydroxide in electrolyte for, 1,285,054
—, —, bismuth plated on, 1,393,739
—, —, mfr. of, grease for, 1,497,160
—, —, —, mercury for, 1,497,160
—, —, —, mercury salt for, 1,497,160
—, —, —, process for, 1,497,160
—, —, —, sulfuric acid for, 1,497,160
—, —, —, zinc for, 1,497,160
—, —, potassium hydroxide in electrolyte for, 1,285,054
—, —, sodium hydroxide in electrolyte for, 1,285,054
—, *Wilson, see Wilson battery*
—, —, *see also Zinc electrode*
Battery boxes, composition for making, formula, wood ashes, calcium hydroxide, linseed oil, Portland cement or calcium sulfate, sawdust or paper or ground leather, 1,444,587
—, mfr. of, asphalt for, 1,467,311
—, —, pitch for, 1,467,311
—, —, tar for, 1,467,311
Battery can, see Can, battery
Battery carbon, carbon electrode for, 1,141,117
Battery case, covering for, 1,447,782
Battery cell, asphalt paint as protective, 1,447,782
—, phenol-formaldehyde as protective, 1,447,782
—, shellac solution as protective, 1,447,782
—, *see also Cell, battery*
Battery charger, see Rectifier, electrolytic
Battery-depolarizer, see Battery dry, depolarizer for
Battery electrode, copper oxide and sulfur in, 1,282,057
—, mfr. of, alkali earth hydroxide for, 1,438,086
—, —, alkali hydroxide for, 1,438,086
—, —, aluminum for, 1,366,095
—, —, ammonium carbonate for, 1,438,086

Battery electrode, mfr. of, ammonium hydroxide for, 1,438,086
—, —, asphalt for, 1,366,095
—, —, brass for, 1,366,095
—, —, bronze for, 1,366,095
—, —, carbon for, 1,366,095
—, —, cement for, 1,366,095
—, —, charcoal for, 1,366,095
—, —, copper for, 1,366,095; 1,438,086
—, —, copper, steel coated with, for, 1,366,095
—, —, copper acetate for, 1,438,086
—, —, copper carbonate for, 1,438,086
—, —, copper chloride for, 1,438,086
—, —, copper electrode for, 1,375,647
—, —, copper formate for, 1,438,086
—, —, copper(ic) hydroxide for, 1,438,086
—, —, copper nitrate for, 1,438,086
—, —, copper oxide for, 1,438,086
—, —, copper oxide, electrolytic, for, 1,375,647; 1,438,086
—, —, —, scale for, 1,375,647; 1,438,086
—, —, copper(ic) oxide for, 1,375,647; 1,438,086
—, —, copper(ous) oxide for, 1,375,647; 1,438,086
—, —, copper salts for, 1,438,086
—, —, copper sulfate for, 1,375,647; 1,438,086
—, —, cuprammonium compounds for, 1,438,086
—, —, enamel for, 1,366,095
—, —, glue for, 1,366,095
—, —, graphite for, 1,366,095
—, —, gum for, 1,366,095
—, —, metal for, 1,366,095
—, —, paraffin for, 1,366,095
—, —, process for, 1,366,095; 1,375,647; 1,438,086
—, —, shellac for, 1,366,095
—, —, sodium chloride for, 1,375,647; 1,438,086
—, —, sodium hydroxide for, 1,375,647; 1,438,086
—, —, steel, cold-rolled, for, 1,366,095
—, —, —, copper coated, for, 1,366,095
—, —, sulfur for, 1,375,647; 1,438,086
—, —, varnish, waterproof, for, 1,366,095
—, —, wax for, 1,366,095
—, —, zinc for, 1,366,095
—, sulfur and copper oxide in, 1,282,057
—, zinc as, 1,282,057
Battery element, cuprous and cupric oxides for, 1,356,435
Battery insulators, celluloid, 1,339,835
Battery lamp, see Flashlight
Battery lead, see Lead, battery
Battery plate, copper oxides in, 1,356,197
—, copper oxides and sugar for making, 1,356,197
Battery separators, celluloid, 1,339,835
—, tripoli, 1,270,074; Re-15,067
—, see also Battery, storage, separator for
Batting, fibrous, fabric, coated, made with, 1,159,155
Battle-ship, packing for watertight compartment of, mfr. of, alum for, 1,235,220
—, —, —, ammonium chloride for, 1,235,220
—, —, —, apparatus for, 1,235,220
—, —, —, corn pith for, 1,235,220
—, —, —, corn stalks for, 1,235,220
—, —, —, process for, 1,235,220
Baume de Carthagene, see Balsam of Tolu
Baume de Tolu, see Balsam of Tolu; Tolu balsam
Baum's acid, see Schaeffer's acid
Bauxite, abrasive made with, 1,187,225; 1,192,709; 1,199,041; 1,199,042; 1,234,905; 1,257,356; 1,263,709; 1,263,710; 1,268,532; 1,268,533; 1,269,222; 1,276,134; 1,314,835; 1,402,714; 1,442,773; 1,467,590
—, adhesive, fireproof, made with, 1,248,092
—, alkali aluminate made with, 1,271,192; 1,508,777
—, alkali aluminum silicate made with, 1,123,693
—, alkali carbonate made with, 1,514,657
—, alkali carbonate impurity in, extraction of, 1,308,429
—, alkali hydroxide impurity in, extraction of, 1,308,429
—, alkali oxide impurity in, extraction of, 1,308,429
—, alkali sulfate impurity in, extraction of, 1,308,429
—, alum from, 1,388,436
—, *α*-alumina from, 1,263,708; 1,263,709
—, alumina made with, 1,269,223; 1,269,224; 1,508,777
—, alumina, crystalline, made with, 1,276,134
—, aluminous abrasive from, mfr. of, 1,488,586
—, aluminum made with, 1,297,946; 1,308,429; 1,329,315; 1,512,271; 1,512,462; 1,519,648
—, aluminum alloy made with, 1,512,462
—, aluminum carbide made with, 1,219,797; 1,222,593; 1,270,226; 1,512,271
—, aluminum chloride made with, 1,147,832; 1,165,065; 1,217,471; 1,268,015; 1,270,226; 1,297,946; 1,308,080; 1,308,885; 1,324,143; 1,325,203; 1,354,818; 1,366,626; 1,392,043; 1,392,044; 1,405,115; 1,422,560; 1,422,568; 1,424,574; 1,489,021; 1,490,021; 1,503,648; 1,508,451; 1,509,605; 1,519,648
—, aluminum compound made with, 1,249,125
—, aluminum fluoride made with, 1,237,488; 1,315,460; 1,391,172; 1,403,183
—, aluminum hydroxide made with, 1,137,860; 1,216,371; 1,300,110; 1,493,320; 1,514,657
—, aluminum nitride made with, 1,143,482; 1,145,747; 1,158,899; 1,188,651; 1,233,925; 1,233,926; 1,241,834; 1,252,649; 1,268,240; 1,344,153; 1,350,149; 1,393,370; 1,393,371; 1,393,372; 1,415,036; 1,415,446
—, aluminum nitride, AlN, made with, 1,180,840
—, aluminum oxide made with, 1,132,737; 1,159,989; 1,162,130; 1,180,840; 1,209,334; 1,228,119; 1,245,383; 1,249,125; 1,282,222; 1,300,110; 1,308,429; 1,314,709; 1,314,710; 1,326,384; 1,332,113; 1,394,854; 1,404,083; 1,410,642; 1,422,004; 1,514,657
—, aluminum oxide, crystalline, made with, 1,310,342
—, aluminum silicate made with, 1,362,274
—, aluminum silicide made with, 1,512,271
—, aluminum sulfate made with, 1,132,737; 1,197,123; 1,252,648; 1,308,429; 1,359,037; 1,388,436
—, aluminum sulfate, titanium sulfate in, made with, 1,173,698
—, aluminum sulfite made with, 1,326,384

see addenda, V. 3, fr. 1003

Bauxite, ammonia made with, 1,158,899; 1,159,989; 1,180,840
—, ammonia, catalyst for the mfr. of, made with, 1,502,336
—, ammonium hydroxide made with, 1,465,310; 1,480,291
—, ammonium salts made with, 1,162,130
—, bentonite, plasticity increased with of, 1,509,406; 1,509,478
—, bentonite and, refractory of, 1,442,413
—, binder for, aluminum salt as, 1,312,853
—, —, aluminum sulfate as, 1,312,853
—, —, ammonium nitrate as, 1,312,853
—, —, ammonium sulfate as, 1,312,853
—, —, mineral acid as, 1,312,853
—, —, mineral salt as, 1,312,853
—, —, nitric acid as, 1,312,853
—, —, sulfuric acid as, 1,312,853
—, —, zirconium sulfate as, 1,312,853
—, blast furnace gas, burner for, made with, 1,223,308
—, brick made with, 1,373,854; 1,463,399
—, brick, sand-lime, made with, 1,514,657
—, —, silica made with, 1,477,810
—, briquet molded with, 1,292,330
—, calcination of, apparatus for, 1,364,656
—, —, carbon dioxide for, 1,364,656
—, —, engine, internal combustion, exhaust gas from, for, 1,364,656
—, —, process for, 1,231,831; 1,364,656
—, calcium made with, 1,512,462
—, calcium alloy made with, 1,512,462
—, calcium aluminate made with, 1,142,989; 1,376,563
—, calcium carbonate impurity in, extraction of, 1,308,429
—, calcium hydroxide impurity in, extraction of, 1,308,429
—, calcium oxide impurity in, extraction of, 1,308,429
—, calcium silicate made with, 1,282,222; 1,514,657
—, calcium sulfate made with, 1,325,203
—, calcium sulfate impurity in, extraction of, 1,308,429
—, catalyst in acetylene product mfr., 1,421,743
—, catalyst for hydrogenation of hydrocarbon made with, 1,152,765
—, catalyst for hydrogenation of lamp oil made with, 1,152,765
—, catalyst for hydrogenation of petroleum made with, 1,152,765
—, catalyst for hydrogenation of resin oil made with, 1,152,765
—, catalyst for hydrogenation of shale oil made with, 1,152,765
—, cement made with, 1,282,222; 1,514,657; 1,514,812
—, cement, ferric, made with, 1,255,995
—, —, waterproofing of using, 1,519,285
—, ceramic article made with, 1,350,825; 1,509,406; 1,509,478
—, ceramic insulating material contg., 1,409,953
—, chromium, iron, pig, contg., Bessemer converter for lined with, 1,479,997
—, clay and, refractory of, 1,442,413
—, coal gas, burner for, made with, 1,223,308
Bauxite, coal oil tar contg., aluminum chloride, removal from of with, 1,311,987
—, coke made with, 1,482,438
—, coke oven gas, burner for, made with, 1,223,308
—, composition of, 1,339,344; 1,402,714
—, concrete, waterproofing of, using, 1,519,285
—, copper compound made with, 1,228,119
—, corundum made with, 1,314,835
—, crucible, clay, made with, 1,374,910
—, —, graphite, made with, 1,374,910
—, damonterolite, plasticity increased with of, 1,509,406; 1,509,478
— decomposing, chlorine and carbon for, 1,329,315
—, dolomite refractory made with, 1,463,399
—, ehrenbergite, plasticity increased with of, 1,509,406; 1,509,478
—, electrode, carbon, protective coating for contg., 1,312,257; 1,312,260
—, electrolytes, plasticity increased with of, 1,509,406
—, emery substitute made with 1,339,344
—, extraction of, redwood tannin for, 1,308,429
—, —, sulfur dioxide and redwood tannin for, 1,308,429
—, —, sulfuric acid and redwood tannin for, 1,308,429
—, —, sulfurous acid and redwood tannin for, 1,308,429
—, fat, decolorizing of, using, 1,492,184
—, fertilizer made with, 1,508,777
—, flotation of, 1,467,354
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,248,092
—, French, composition of, 1,350,825
—, fuel, gaseous burner for, made with, 1,223,308
—, fusing of, 1,439,286
—, fusing, electric furnace for, 1,352,387
—, gasolene made with, 1,373,653; 1,482,438
—, gasolene, cracked, treatment of, using, 1,492,969
—, gasolene air gas, burner for, made with, 1,223,308
—, gasolene mfr. in presence of, 1,373,653
—, glass contg., granules of, 1,374,136
—, gums, plasticity increased with of, 1,509,406
—, hydrocarbon, burner for, made with, 1,223,308
—, —, cracked, treatment of, using, 1,492,969
—, —, hydrogenation of, catalyst for, made with, 1,152,765
—, hydrochloric acid made with, 1,123,693; 1,489,021
—, hydrochloric acid, treatment with of, 1,492,184
—, hydrogenation catalyst made with, 1,152,765
—, insulating material of clay and, 1,358,366
—, insulation, electric, made with, 1,358,366
—, —, heat, made with, 1,509,478
—, iron made with, 1,227,127
—, iron, pig, chromium in, Bessemer converter for lined with, 1,479,997
—, —, removal of from, 1,430,454
—, —, removal of from, hydrochloric acid for, 1,132,537

Bauxite, iron, removal of from, process for, 1,132,537
—, —, —, sodium chloride for, 1,132,537
—, —, —, sulfuric acid for, 1,132,537
—, iron carbonate impurity in, extraction of, 1,308,429
—, iron chloride made with, 1,147,832
—, iron compound, removal of from, chlorine for, 1,185,254
—, —, —, copper(ic) salt for, 1,185,254
—, —, —, copper(ous) chloride for, 1,185,254
—, —, —, copper(ous) salt for, 1,185,254
—, —, —, copper(ic) sulfate for, 1,185,254
—, —, —, process for, 1,185,254
—, —, —, sulfur dioxide for, 1,185,254
—, —, —, sulfuric acid for, 1,185,254
—, iron hydroxide impurity in, extraction of, 1,308,429
—, iron oxide in, abrasive made with, 1,187,225
—, —, ferro-silicon made with, 1,187,225
—, iron oxide impurity in, extraction of, 1,308,429
—, iron sulfate impurity in, extraction of, 1,308,429
—, kerosene made with, 1,482,438
—, lamp oil, hydrogenation of, catalyst for made with, 1,152,765
—, lead compound made with, 1,228,119
—, magnesia article, bonded, made with, 1,394,442
—, magnesium aluminate made with, 1,394,442
—, magnesium carbonate impurity in, extraction of, 1,308,429
—, magnesium hydroxide impurity in, extraction of, 1,308,429
—, magnesium oxide impurity in, extraction of, 1,308,429
—, magnesium sulfate impurity in, extraction of, 1,308,429
—, manganese carbonate impurity in, extraction of, 1,308,429
—, manganese hydroxide impurity in, extraction of, 1,308,429
—, manganese oxide impurity in, extraction of, 1,308,429
—, manganese sulfate impurity in, extraction of, 1,308,429
—, mold contg., cobalt and, 1,454,065; 1,454,067
—, mold contg., nickel and, 1,454,065; 1,454,067
—, mold making material contg., 1,401,215
—, molded article made with, 1,509,406; 1,509,478
—, montmorillonite, plasticity increased with of, 1,509,406; 1,509,478
—, mortar made with, 1,509,478
—, mortar, waterproofing of using, 1,519,285
—, natural gas, burner for, made with, 1,223,308
—, nitric acid made with, 1,200,334
—, nitrogen, fixation of, using, 1,155,840; 1,196,639; 1,196,657; 1,465,310
—, oil, animal, decolorizing of, using, 1,492,184
—, —, vegetable, decolorizing of, using, 1,492,184
—, oil contg., aluminum chloride, removal from of with, 1,311,987
—, oil filter made of, 1,435,972
—, paint, fireproof, made with, 1,248,092
Bauxite, paper, fireproof sizing for, made with, 1,248,092
—, petroleum, decolorizing of, using, 1,492,184
—, —, hydrogenation of, catalyst for made with, 1,152,765
—, petroleum contg., aluminum chloride, removal from of with, 1,311,987
—, petroleum, desulfurized with, 1,457,656
—, plaster made with, 1,142,989; 1,185,774; 1,185,775
—, plastic made with, 1,142,989; 1,509,406; 1,509,478
—, potassium aluminate made with, 1,271,192
—, potassium carbonate impurity in, extraction of, 1,308,429
—, potassium compounds from, 1,410,642
—, potassium fluosilicate made with, 1,237,488
—, potassium hydroxide impurity in, extraction of, 1,308,429
—, potassium oxide impurity in, extraction of, 1,308,429
—, potassium sulfate impurity in, extraction of, 1,308,429
—, producer gas, burner for, made with, 1,223,308
—, purifying, sodium hydroxide solution for, 1,397,414
—, red, aluminum nitride made with, 1,158,899
—, —, ammonia made with, 1,158,899
—, reduction of, apparatus for, 1,512,271
—, —, carbon for, 1,512,271
—, —, coke for, 1,512,271
—, —, electric, 1,379,523
—, —, hydrogen for, 1,521,271
—, —, pitch for, 1,512,271
—, —, process for, 1,512,271
—, —, rutile for, 1,512,271
—, —, silica for, 1,512,271
—, —, titanium dioxide for, 1,512,271
—, refractory contg., 1,131,709; 1,231,684; 1,238,020; 1,240,569; 1,267,686; 1,273,529; 1,289,049; 1,362,274; 1,362,316; 1,394,442; 1,439,286; 1,442,413; 1,453,468; 1,463,399; 1,477,810; 1,509,478; 1,514,812
—, refractory ware made with, 1,350,825
—, resin made with, 1,324,649
—, resin oil, hydrogenation of, catalyst for, made with, 1,152,765
—, resister, electric, made with, 1,393,373
—, shade oil, hydrogenation of, catalyst for, made with, 1,152,765
—, silica in, abrasive made with, 1,187,225
—, —, ferro-silicon made with, 1,187,225
—, silicon made with, 1,512,462
—, silicon alloy made with, 1,512,462
—, silicon dioxide made with, 1,249,125; 1,326,384; 1,489,021
—, silicon sulfide made with, 1,245,383
—, silicon tetrachloride made with, 1,147,832; 1,489,021
—, sodium aluminate made with, 1,136,549; 1,271,192; 1,282,222; 1,422,004
—, sodium aluminum silicate made with, 1,123,693
—, sodium carbonate impurity in, extraction of, 1,308,429

Bauxite, sodium hydroxide impurity in, extraction of, 1,308,429
—, sodium oxide impurity in, extraction of, 1,308,429
—, sodium sulfate impurity in, extraction of, 1,308,429
—, spinel, artificial, made with, 1,394,442
—, spinel from magnesite and, 1,448,010
—, starch, fireproof, made with, 1,248,092
—, sugar solution, decolorizing of, using, 1,492,184
—, sulfur made with, 1,331,645; 1,479,852; 1,507,105
—, sulfur dioxide made with, 1,249,125; 1,489,021
—, sulfur dioxide and redwood tannin for extraction of, 1,308,429
—, sulfuric acid, treatment with of, 1,492,184
—, sulfuric acid and redwood tannin for extraction of, 1,308,429
—, sulfurous acid and redwood tannin for extraction of, 1,308,429
—, sulfur purified using, 1,331,645
—, tannic acid, plasticity increased with of, 1,509,406
—, titanium carbonate impurity in, extraction of, 1,308,429
—, titanium chloride made with, 1,147,832
—, titanium dioxide in, abrasive made with, 1,187,225
—, —, ferro-silicon made with, 1,187,225
—, titanium hydroxide impurity in, extraction of, 1,308,429
—, titanium oxide impurity in, extraction of, 1,308,429
—, titanium sulfate, aluminum sulfate contg., made with, 1,173,698
—, titanium sulfate impurity in, extraction of, 1,308,429
—, treating of, 1,390,796; 1,402,714
—, —, sodium silicate for, 1,400,495
—, treating with sulfuric acid, apparatus for, 1,457,787
—, varnish, fireproof, made with, 1,248,092
—, vegetable oil refining element made of, 1,435,972
—, washing oil out of, soap solutions for, 1,356,631
—, water, purification of, using, 1,197,123
—, water gas, burner for, made using, 1,223,308
—, wax, decolorizing of, using, 1,492,184
—, welding electrode covering contg., 1,441,685
—, wood pulp made with, 1,249,125
—, zinc compound made with, 1,228,119
—, *see also Aluminum hydroxide; Aluminum oxide; Aluminum ore; Aluminum oxide, hydrated*
Bauxite sludge, pigment, 1,489,418
Bavarian blue DSF, see Sodium triphenyl-pararosaniline-disulfonate
Bay-berry camphor, see Laurin
Bayberry oil cake, albuminous product made with, 1,169,634
Bayberry tallow, coating composition made with, 1,189,550; 1,189,551
—, finish remover made with, 1,140,449; 1,167,640
Bayberry wax, concrete molds coated with kerosene and, 1,256,710
Bayer process, aluminum hydroxide made with, 1,137,860
—, sodium aluminate decomposed by, 1,422,004
Bayer alizarin blue, photographic print, colored, made with, 1,160,288
Bayer alizarin rubinol R, photographic print, colored, made with, 1,160,288
Bayer alizarin rubinol 3G, photographic print, colored, made with, 1,160,288
Bayer's acid, see b-naphthylamine-δ-sulfonic acid (2:7); b-Naphthol-sulfonic acid
Bayer sulfon rubinol R, photographic print, colored, made with, 1,160,288
Bay laurel, fluid of, healing composition contg., 1,331,690
Bay leaves, food product made with, 1,143,087
—, hair and scalp remedy contg., 1,350,843
Bay oil, dental preparation made with, 1,318,254
—, tooth filling made with, 1,318,254
Bay salt, see Sodium chloride
Bazzies, see Burdock root
Beaconite, see Talc
Bead carved flower, corn starch contg., 1,253,236
—, —, dextrin, potato contg., 1,253,236
—, —, mfr. of, corn starch for, 1,253,236
—, —, —, dextrin, potato for, 1,253,236
—, —, —, process for, 1,253,236
—, —, —, sodium chloride for, 1,253,236
—, —, —, tragacanth for, 1,253,236
—, —, sodium chloride contg., 1,253,236
—, —, tragacanth contg., 1,253,236
—, mfr. of, process for, 1,159,879
Beakers decanting apparatus for, 1,368,687
—, filtering apparatus for use with, 1,368,687
Beans, beverage from, 1,414,557
—, board made with, 1,245,984
—, bran extract made with, 1,189,023
—, bread made with, 1,222,304; 1,387,387
—, butter substitute from, 1,403,122
—, celluloid substitute made with, 1,245,976; 1,245,983; 1,245,984; 1,280,862
—, coffee substitute made with, 1,189,125; 1,189,126; 1,189,131; 1,189,132; 1,414,557
—, coffee substitute extract made with, 1,163,759; 1,165,414; 1,177,037; 1,198,393; 1,199,387; 1,204,032; 1,204,358
—, cooking of, process for, 1,508,862
—, disinfecting of, amino-butyric acid, mercury derivative of, for, 1,485,021
—, —, calcium bicarbonate for, 1,485,021
—, —, calcium carbonate for, 1,485,021
—, —, calcium hydroxide for, 1,485,021
—, —, glycine, mercury derivative of, for, 1,485,021
—, —, mercury acetamide for, 1,485,021
—, —, mercury acylamides for, 1,485,021
—, —, mercury benzamide for, 1,485,021
—, —, mercury oleylamide for, 1,485,021
—, —, mercury phthalimide for, 1,485,021
—, —, mercury succinimide for, 1,485,021
—, —, potassium bicarbonate for, 1,485,021
—, —, potassium carbonate for, 1,485,021
—, —, potassium hydroxide for, 1,485,021
—, —, process for, 1,485,021
—, —, sodium bicarbonate for, 1,485,021

Beans, disinfecting of, sodium carbonate for, 1,485,021
—, —, sodium hydroxide for, 1,485,021
—, fertilizer for, 1,282,170
—, field, vine, plaster retarder made from, apparatus for, 1,134,964
—, —, —, —, process for, 1,134,964
—, floor covering made with, 1,245,984
—, flour, treatment of, using, 1,189,023
—, food from, 1,410,973
—, food product made with, 1,222,062; 1,295,160; 1,295,162; 1,344,638; 1,484,970; 1,508,862
—, globulin made with, 1,324,208
—, hulling, alkalis for, 1,344,638
—, insulation, electric, made with, 1,245,976; 1,245,980; 1,245,981; 1,245,984
—, ivory substitute made with, 1,245,976
—, kidney, blood serum made with, 1,264,285
—, —, hog cholera antitoxin made with, 1,264,285
—, —, mammalian blood serum made with, 1,264,285
—, lacquer made with, 1,245,981; 1,245,982
—, leather, artificial, made with, 1,245,977
—, lima, fertilizer for, 1,320,701
—, —, inoculation of, bacterial compost for, 1,320,701
—, —, vine, plaster retarder made from, apparatus for, 1,134,964
—, —, —, plaster retarder made from, process for, 1,134,964
—, linoleum substitute made with, 1,245,984; 1,245,978
—, media contg., 1,400,374
—, milk, artificial, made with, 1,139,031
—, navy, fertilizer, for, 1,320,701
—, —, inoculation of, bacterial compost for, 1,320,701
—, —, vine, plaster retarder made from, apparatus for, 1,134,964
—, —, —, —, process for, 1,134,964
—, nitrifying bacteria obtained from, 1,341,030
—, oil extraction from, apparatus for, 1,415,433
—, phenol aldehyde condensate substitute made with, 1,245,976
—, plastic made with, 1,245,981; 1,245,984
—, proteid product made with, 1,245,976; 1,245,981
—, rubber substitute made with, 1,245,976; 1,245,979; 1,245,984
—, scarlet runner, blood serum made with, 1,264,285
—, —, hog cholera antitoxin made with, 1,264,285
—, —, mammalian blood serum made with, 1,264,285
—, soup, desiccated, made with, 1,222,062
—, soup powder made with, 1,484,970
—, soy, fertilizer for, 1,320,701
—, —, inoculation of, bacterial compost for, 1,320,701
—, tanning extract decolorized using, 1,163,827
—, tile made with, 1,245,984
—, treatment of, calcium hydroxide for, 1,242,728
—, —, process for, 1,242,728
—, —, sodium bicarbonate for, 1,242,728
—, varnish made with, 1,280,861
—, velvet, fertilizer for, 1,320,701
Beans, velvet, inoculation of, bacterial compost for, 1,320,701
—, —, meal, cattle feed contg., 1,260,327
—, vitamin made with, 1,235,198
—, white navy, blood serum made with, 1,264,285
—, —, hog cholera antitoxin made with, 1,264,285
—, —, mammalian blood serum made with, 1,264,285
Bean croppings, beer, coloring for, made with, 1,178,040
—, beer wort made with, 1,178,039
—, food product made with, 1,178,039; 1,178,040
Bean cheese, mfr. of, magnesia sulfate for, 1,258,427
—, —, oil, salad, for, 1,258,427
—, —, process for, 1,258,427
—, —, soya bean for, 1,258,427
Bean flour, de-colorizing of, acetic acid for, 1,314,298
—, —, sodium bicarbonate for, 1,314,298
—, —, vinegar for, 1,314,298
—, deodorizing of, acetic acid for, 1,314,298
—, —, process for, 1,314,298
—, —, sodium bicarbonate for, 1,314,298
—, —, vinegar for, 1,314,298
—, milk powder substitute, 1,314,298
—, starch, pebble-like, made with, 1,129,440
—, *see also Soya bean flour*
Bean jelly, mfr. of, apparatus for, 1,195,843
—, —, lime for, 1,195,843
—, —, oil, vegetable, for, 1,195,843
—, —, olive oil for, 1,195,843
—, —, peanut oil for, 1,195,843
—, —, process for, 1,195,843
—, —, sodium chloride for, 1,195,843
—, —, soya bean for, 1,195,843
Bean meal, celluloid substitute made with, 1,280,862
—, varnish made with, 1,280,861
Bean oil, amber dissolved in, sulfonation of, 1,289,097
—, amber solvent, 1,289,097
—, butter substitute from, 1,403,122
—, copal dissolved in, sulfonation of, 1,289,097
—, copal solvent, 1,289,097
—, Dammara-resin dissolved in, sulfonation of, 1,289,097
—, Dammara-resin solvent, 1,289,097
—, guaiacum gurjun dissolved in, sulfonation of, 1,289,097
—, guaiacum gurjun solvent, 1,289,097
—, resin dissolved in sulfonation of, 1,289,097
—, resin solvent, 1,289,097
—, resin, fossil, dissolved in, sulfonation of, 1,289,097
—, —, —, solvent, 1,289,097
—, rosin dissolved in, sulfonation of, 1,289,097
—, rosin solvent, 1,289,097
—, succinite dissolved in, sulfonation of, 1,289,097
—, succinite solvent, 1,289,097
—, turpentine, Canada, dissolved in, sulfonation of, 1,289,097
—, —, —, solvent, 1,289,097

Bean oil, turpentine dissolved in, sulfonation of, 1,289,097
—, turpentine solvent, 1,289,097
Bean ore, see Oolithic acid
Bean proteid, board made with, 1,245,984
—, celluloid substitute made with, 1,245,975; 1,245,976; 1,245,983; 1,245,984
—, floor covering made with, 1,245,984
—, insulation, electric, made with, 1,245,975; 1,245,976; 1,245,980; 1,245,981; 1,245,984
—, ivory substitute made with, 1,245,975; 1,245,976
—, lacquer made with, 1,245,981; 1,245,982
—, leather, artificial, made with, 1,245,977
—, linoleum substitute made with, 1,245,978; 1,245,984
—, marble substitute made with, 1,245,975
—, phenol aldehyde condensate substitute made with, 1,245,975; 1,245,976
—, plastic made with, 1,245,981; 1,245,984
—, proteid product made with, 1,245,975; 1,245,976; 1,245,981
—, rubber substitute made with, 1,245,975; 1,245,976; 1,245,979; 1,245,984
—, tile made with, 1,245,984
Bean starch, binder contg., 1,318,106
—, calcimine, binder for contg., 1,318,106
—, glue contg., 1,318,106
—, oil, emulsifier for contg., 1,318,106
—, size contg., 1,318,106
—, starch, pebble-like, made with, 1,129,440
Bean straw, building blocks made with, 1,151,095
—, mortar made with, 1,151,095
—, plaster, gypsum, made with, 1,151,095
—, —, retarder for made with, 1,151,095
—, plaster board made with, 1,151,095
—, textile made with, 1,151,095
—, treatment of, calcium hypochlorite for, 1,151,095
—, —, process for, 1,151,095
—, —, water for, 1,151,095
Bean vine, animal food made with, 1,141,079
—, bean vine fiber made from, 1,141,079
—, food made from, 1,141,079
—, plaster retarder made from, 1,141,079
—, —, apparatus for, 1,134,964
—, —, process for, 1,134,964
Bean vine fiber, mfr. of, apparatus for, 1,141,079
—, —, bean vine for, 1,141,079
—, —, process for, 1,141,079
Bear grass, shredding of, apparatus for, 1,520,358
Bearings, alloy for, see Alloy, copper-tin-zinc
—, antifriction, mfr. of, alloy for, 1,494,099
—, —, —, apparatus for, 1,494,099
—, —, —, brass for, 1,494,099
—, —, —, bronze for, 1,494,099
—, —, —, duck for, 1,430,560
—, —, —, fabric for, 1,430,560
—, —, —, graphite for, 1,430,560; 1,494,099
—, —, —, metal for, 1,494,099
—, —, —, muslin for, 1,430,560
—, —, —, paper for, 1,430,560
—, —, —, phenol aldehyde condensate for, 1,430,560
Bearings, antifriction, mfr. of, process for, 1,430,560; 1,494,099
—, fitting, composition for, formula, lime quartz 45, white lead 32, zinc 12, boric acid 7, lampblack 4, 1,458,772
—, hot, cooling compound for, 1,423,103
—, iron, babbitting, flux and alloy for, 1,399,810
—, jewel, synthetic, mfr. of, aluminum oxide for, 1,422,216; 1,438,188
—, —, —, —, clay for, 1,422,216; 1,438,188
—, —, —, —, dextrin for, 1,422,216; 1,438,188
—, —, —, —, feldspar for, 1,422,216; 1,438,188
—, —, —, —, glass for, 1,422,216
—, —, —, —, kerosene for, 1,422,216; 1,438,188
—, —, —, —, process for, 1,422,216; 1,438,188
—, *lubricant for, see Lubricant; Lubricant, car-journals*
—, lubrication of, etching of before applying graphite for, 1,129,340
—, —, graphite for, 1,129,340
—, mfr. of, aluminum for, 1,185,220
—, —, ammonium chloride for, 1,185,220
—, —, apparatus for, 1,492,119
—, —, asbestos for, 1,137,373
—, —, Babbitt metal for, 1,185,220; 1,492,119
—, —, bismuth, lead alloy contg., 1,341,938
—, —, brass for, 1,341,938
—, —, cadmium, lead alloy contg., for, 1,341,938
—, —, carnauba wax for, 1,197,428
—, —, cotton for, 1,137,373
—, —, duck for, 1,430,560
—, —, dyestuff, indulin for, 1,197,428
—, —, fabric for, 1,430,560
—, —, formaldehyde, polymerized, for, 1,137,373
—, —, glue for, 1,137,373
—, —, graphite for, 1,137,373; 1,197,428; 1,430,560
—, —, graphite, Acheson deflocculated, for, 1,137,373
—, —, —, expanded, for, 1,137,373
—, —, grease for, 1,197,428
—, —, hexamethylenetetramine for, 1,137,373;
—, —, hydrocarbon for, 1,197,428
—, —, hydrochloric acid for, 1,185,220; 1,341,938
—, —, iron, zinc coated, for, 1,176,603
—, —, lead for, 1,341,938; 1,492,119
—, —, lead alloy, bismuth in, for, 1,341,938
—, —, —, cadmium in, for, 1,341,938
—, —, —, tin in, for, 1,341,938
—, —, linen for, 1,137,373
—, —, linseed oil for, 1,137,373
—, —, magnesium chloride for, 1,482,414
—, —, magnesium oxide for, 1,482,414
—, —, metal for, 1,431,233
—, —, mica for, 1,482,414
—, —, muslin for, 1,430,560
—, —, myrtle wax for, 1,197,428
—, —, oil for, 1,197,428
—, —, oil, mineral, for, 1,482,414
—, —, olein for, 1,197,428
—, —, paper for, 1,430,560
—, —, paraffin for, 1,197,428
—, —, phenol aldehyde condensate for, 1,137,373; 1,430,560
—, —, process for, 1,137,373; 1,176,603; 1,185,220; 1,197,428; 1,341,938; 1,430,560; 1,482,414; 1,492,119

Bearings, mfr. of, rosin for, 1,197,428
—, —, rubber for, 1,137,373
—, —, soapstone for, 1,482,414
—, —, solder for, 1,341,938
—, —, soot for, 1,482,414
—, —, stearic acid for, 1,197,428
—, —, stearin for, 1,197,428
—, —, steel for, 1,185,220
—, —, talc for, 1,482,414
—, —, tar for, 1,482,414
—, —, tar oil for, 1,482,414
—, —, tin for, 1,185,220; 1,341,938; 1,492,119
—, —, tin, lead alloy contg., for, 1,341,938
—, —, tin alloy, lead in, for, 1,341,938
—, —, varnish gum for, 1,137,373
—, —, wax for, 1,197,428
—, —, wax, animal, for, 1,197,428
—, —, —, mineral, for, 1,197,428
—, —, —, vegetable, for, 1,197,428
—, —, wood for, 1,197,428
—, —, wood flour for, 1,137,373
—, —, wood pulp for, 1,137,373; 1,482,414
—, —, "wood soot" for, 1,482,414
—, —, zinc for, 1,176,603; 1,185,220; 1,492,119
—, —, zinc chloride for, 1,341,938
—, metal, graphite in, 1,390,197
—, metal with imbedded graphite for, 1,422,677
—, oil-less, graphite in, 1,390,197
—, packing for, mfr. of, Babbitt for, 1,324,763
—, —, —, bearing metal for, 1,324,763
—, —, —, beeswax for, 1,324,763
—, —, —, graphite for, 1,324,763
—, —, —, paraffin for, 1,324,763
—, —, —, process for, 1,324,763
—, steel, babitting, flux and alloy for, 1,399,810
—, vulcanized fiber, graphite and Babbitt metal for constructing, 1,398,219; 1,398,220
Bearing composition, mfr. of, asbestos for, 1,491,466
—, —, blood, animal, for, 1,491,466
—, —, cement hydraulic, for, 1,491,466
—, —, —, Portland, for, 1,491,466
—, —, graphite for, 1,491,466
—, —, mica for, 1,491,466
—, —, process for, 1,491,466
—, —, sulfur for, 1,491,466
—, —, wood pulp for, 1,491,466
Bearing fitting compound, formula, silica 22.25%, white lead 22.25%, graphite 44.5%, sodium carbonate 11%, oil q.s., 1,361,719
—, graphite in, 1,361,719
—, lead, white, in, 1,361,719
—, silica in, 1,361,719
—, sodium carbonate in, 1,361,719
Bearing metal, alkali earth metal in, 1,520,254
—, alloy for use as, 1,360,272
—, aluminum in, 1,360,272; 1,360,346; 1,376,339
—, antimony in, 1,269,000; 1,286,921; 1,497,011; 1,502,321; 1,502,425; 1,512,190
—, antimony, copper alloy contg., as, 1,223,001
—, barium in, 1,360,272; 1,520,254
—, bearing, packing for, made with, 1,324,763
—, bismuth in, 1,324,763; 1,497,011; 1,502,425
—, calcium in, 1,360,272; 1,520,254
—, copper in, 1,286,921; 1,324,763; 1,477,797; 1,502,321; 1,502,425; 1,512,190
—, copper alloy, antimony in, as, 1,223,001
Bearing metal, copper alloy, lead in, as, 1,223,001
—, —, nickel in, as, 1,223,001
—, formula, copper 60-85; lead 1-36; antimony 3-20; phosphorus .25-3.0; 1,286,921
—, —, lead 89, tin 7½, antimony 3¼, phosphorus ¼; 1,304,849
—, —, zinc 1, lead 2, tin 4, 1,376,339
—, graphite in, 1,477,797
—, hardening of, antimony in composition for, 1,502,425
—, —, bismuth in composition for, 1,502,425
—, —, copper in composition for, 1,502,425
—, —, tin in composition for, 1,502,425
—, iron in, 1,324,763
—, lead in, 1,269,000; 1,286,921; 1,324,763; 1,360,272; 1,360,346; 1,360,347; 1,376,339; 1,497,011; 1,502,321; 1,502,425; 1,512,190; 1,520,254
—, lead, copper alloy contg., as, 1,223,001
—, magnesium in, 1,286,921; 1,360,272; 1,360,347
—, magnesium alloy as, 1,341,774
—, manganese in, 1,286,921
—, mfr. of, alkali earth chloride for, 1,520,254
—, —, alloy for, 1,198,152
—, —, antimony for, 1,269,000; 1,502,321
—, —, Babbitt metal for, 1,198,152
—, —, barium chloride for, 1,520,254
—, —, calcium chloride for, 1,520,254
—, —, copper for, 1,234,547
—, —, copper sulfate for, 1,269,000
—, —, graphite for, 1,198,152
—, —, hydrogen for, 1,234,547; 1,477,797
—, —, lead for, 1,198,152; 1,234,547; 1,269,000; 1,502,321; 1,520,254
—, —, metal for, 1,198,152
—, —, oxygen for, 1,234,547
—, —, phosphor-brass for, 1,502,321
—, —, phosphor-copper for, 1,502,321
—, —, phosphor-manganese-copper for, 1,502,321
—, —, phosphor-zinc for, 1,502,321
—, —, process for, 1,198,152; 1,234,547; 1,269,000; 1,477,797; 1,502,321; 1,520,254
—, —, sodium for, 1,520,254
—, —, sodium hydroxide for, 1,269,000
—, —, strontium chloride for, 1,520,254
—, —, tin for, 1,269,000; 1,502,321
—, mercury in, 1,360,272; 1,360,346; 1,360,347
—, molybdenum in, 1,477,797
—, nickel in, 1,286,921
—, nickel, copper alloy contg., as, 1,223,001
—, packing, plastic, made with, 1,324,763
—, packing material contg., 1,441,951
—, phosphorus in, 1,286,921; 1,502,321
—, piston, packing for, made with, 1,324,763
—, potassium in, 1,360,346
—, silicon in, 1,286,921
—, sodium in, 1,269,000; 1,360,346
—, sodium hydroxide in, 1,269,000
—, strontium in, 1,520,254
—, tin in, 1,260,000; 1,360,272; 1,360,346; 1,376,339; 1,497,011; 1,502,321; 1,502,425; 1,512,190
—, tungsten in, 1,477,797
—, zinc in, 1,360,272; 1,360,346; 1,376,339
—, *see also Alloy antifriction metal; Babbitt metal; Lead alloy; Lubricant*

Bearing metal alloy, formula, lead 96%+, magnesium —2%, mercury —2%, 1,360,347
—, lead, barium and calcium alloy for, 1,360,339
Beater, bed-plate for, mfr. of, carborundum for, 1,287,905
—, —, —, cement for, 1,287,905
—, —, —, cement, Portland, for, 1,287,905
—, —, —, Lava, basaltic, for, 1,287,905
—, —, —, process for, 1,287,905
—, —, —, wire for, 1,287,905
—, construction of, 1,271,426
—, knife bar for, mfr. of, bronze for, 1,216,487
—, —, —, process for, 1,216,487
—, —, —, steel for, 1,216,487
—, metal for, mfr. of, calcium carbonate for, 1,235,071
—, —, —, iron turnings for, 1,235,071
—, —, —, magnesium carbonate for, 1,235,071
—, —, —, process for, 1,235,071
Beater sizing, see Paper, engine-sizing,
Beater stock, viscosity of, indicator for, 1,331,861
Beating engine, construction of, 1,324,223
—, *see also Beater*
Beauty mark, mfr. of, court-plaster for, 1,140,975
—, —, process for, 1,140,975
—, —, stone, sparkling, for, 1,140,975
Beauxite see Bauxite
Beaver hair, battery, storage, made using, 1,481,947
Beaver S. 3187, silk dyed with, 1,446,860
Beccarite, see Zirconium dioxide, ZrO_2
Bechilite, enamel, iron, made with, 1,256,456
Beckton white, see Lithopone
Becquerelite, see Uranium hydroxide, $UO_3.2H_2O$
Bed bug, insecticide for destroying, 1,324,848
—, killing of, lactic acid for, 1,499,164
—, —, potassium bisulfite for, 1,499,164
—, —, potassium lactate for, 1,499,164
—, —, sodium bisulfite for, 1,499,164
—, —, sodium lactate for, 1,499,164
—, —, sulfur dioxide for, 1,499,164
—, wood repellent to, mfr. of, 1,312,634
Bed covering, water-proof, mfr. of, process for, 1,126,783
Bedding, fire-proof, mfr. of, ammonium chloride for, 1,165,062
—, —, —, borax for, 1,165,062
—, —, —, cornstalk for, 1,165,062
—, —, —, paper for, 1,165,062
—, —, —, process for, 1,165,062
—, —, —, sodium hydroxide for, 1,165,062
—, —, —, sodium silicate for, 1,165,062
—, —, —, zinc chloride for, 1,165,062
Bee, European foul brood disease of, treatment of, hydrogen dioxide for, 1,242,770
—, —, —, phenol for, 1,242,770
—, —, —, process for, 1,242,770
—, —, —, sodium chloride for, 1,242,770
—, —, —, sulfuric acid for, 1,242,770
—, food for, sterilized, mfr. of, alkali for, 1,511,856
—, —, —, —, glucose for, 1,511,856
—, —, —, —, honey for, 1,511,856
—, —, —, —, hypochlorite for, 1,511,856
—, —, —, —, maltose for, 1,511,856
—, —, —, —, process for, 1,511,856
—, —, —, —, sodium carbonate for, 1,511,856
Bee, food for, sterilized, mfr. of, sodium hypochlorite for, 1,511,856
—, —, —, —, syrup for, 1,511,856
Beech, building block made with, 1,265,655
—, mine pump having fittings made of, 1,194,404
—, road paving made with, 1,265,655
—, timber substitute made with, 1,265,655
—, treatment of, linseed oil for, 1,194,404
—, —, pine tar for, 1,194,404
—, —, process for, 1,194,404
—, —, salt for, 1,194,404
—, —, tallow for, 1,194,404
Beech leaves, foam bath made with, 1,281,670
Beech nuts, bacteria food stuff for contg., 1,472,344
—, ethyl alcohol made with, 1,472,344
—, ferments, food stuff for contg., 1,472,344
—, fungi, food stuff for contg., 1,472,344
—, humic substance made with, 1,472,344
—, molds, food stuff for contg., 1,472,344
—, mucors, food stuff for contg., 1,472,344
—, yeast, food stuff for contg., 1,472,344
Beech wood, acetic acid made with, 1,178,223
—, asphalt composition contg., 1,370,647
—, butyric acid made with, 1,178,223
—, ethyl alcohol made with, 1,428,217
—, fatty acid made with, 1,178,223
—, formic acid made with, 1,178,223
—, 2-furaldehyde made with, 1,428,217
—, glucose made with, 1,428,217
—, methyl alcohol made with, 1,428,217
—, propionic acid made with, 1,178,223
Beech wood creosote, anesthetic, dental, made with, 1,420,634
—, anodyne made with, 1,420,634
—, astringent made with, 1,420,634
—, disinfectant made with, 1,420,634
—, mfr. of, air for, 1,199,271; Re-14,388
—, —, potassium bichromate for, 1,199,271; Re-14,388
—, —, potassium permanganate for, 1,199,271; Re-14,388
—, —, process for, 1,199,271; Re-14,388
—, —, sodium hydroxide for, 1,199,271; Re-14,388
—, —, sulfuric acid for, 1,199,271; Re-14,388
—, —, tar oil for, 1,199,271; Re-14,388
—, —, wood, hard-, tar for, 1,199,271; Re-14,388
—, paint contg., 1,430,142
—, styptic made with, 1,420,634
—, *see also Creosote; Creosote, beechwood*
Beechwood pulp, wall board made with, 1,374,931
Beechwood sawdust, tar-paper made with, 1,203,403
Beechwood tar, finish remover made with, 1,160,394
—, tanning compound made with, 1,376,805
Beef, canning of, process for, 1,240,165
—, corned, canning of, process for, 1,181,115; Re-14,337
—, —, —, potato for, 1,181,115; Re-14,337
—, —, curing of alkali earth nitrate for, 1,259,377
—, —, —, alkali earth nitrite for, 1,259,377
—, —, —, alkali nitrate for, 1,259,376; 1,259,377

Beef, corned, curing of, alkali nitrite for, 1,212,614; 1,259,376; 1,259,377
—, —, —, barium nitrate for, 1,259,377
—, —, —, barium nitrite for, 1,259,377
—, —, —, calcium nitrate for, 1,259,377
—, —, —, calcium nitrite for, 1,259,377
—, —, —, magnesium nitrate for, 1,259,377
—, —, —, magnesium nitrite for, 1,259,377
—, —, —, pickling liquor, waste (meat), 1,259,376; 1,259,377
—, —, —, potassium nitrate for, 1,212,614; 1,259,376; 1,259,377
—, —, —, potassium nitrite for, 1,212,614; 1,259,376; 1,259,377
—, —, —, process for, 1,212,614; 1,259,376; 1,259,377
—, —, —, sodium chloride for, 1,212,614; 1,259,376; 1,259,377
—, —, —, sodium nitrate for, 1,212,614; 1,259,376; 1,259,377
—, —, —, sodium nitrite for, 1,212,614; 1,259,376; 1,259,377
—, —, —, strontium nitrate for, 1,259,377
—, —, —, strontium nitrite for, 1,259,377
—, —, —, sugar for, 1,212,614; 1,259,376; 1,259,377
—, culture media prepared from, 1,334,318
—, curing of, apparatus for, 1,516,728
—, —, potassium nitrate for, 1,173,411
—, —, process for, 1,173,411; 1,516,728
—, —, sodium chloride for, 1,173,411
—, —, sugar for, 1,173,411
—, food product made with, 1,130,723; 1,240,165; 1,245,751; 1,273,072
—, leprosy, substance for treatment of, made with, 1,250,345
—, meat extract mfr. from, 1,414,177
—, meat product made with, 1,167,193
—, refrigeration of, beeswax for, 1,489,144
—, —, fat for, 1,489,144
—, —, fatty acid for, 1,489,144
—, —, ice for, 1,489,144
—, —, Japan wax for, 1,489,144
—, —, oil, vegetable, for, 1,489,144
—, —, process for, 1,489,144
—, —, sodium chloride for, 1,489,144
—, —, wax for, 1,489,144
—, —, wax, mineral, for, 1,489,144
—, roast, canning of, potato for, 1,181,115; Re-14,337
—, —, —, process for, 1,181,115; Re-14,337
—, therapeutic compound made with, 1,250,345
—, tuberculosis, substance for treatment of, made with, 1,250,345
Beef bouillon, culture media prepared from, 1,334,318
Beef extract, macaroni made with, 1,484,863
—, *see also Meat-extract*
Beef fat, alkali silicate, water-proof cement product of made with, 1,283,546
—, butter substitute made with, 1,190,369
—, calcium hydroxide, waterproof cement product of made with, 1,283,546
—, calcium oxide, water-proof cement product of made with, 1,283,546
—, cement, hydraulic, waterproof cement product of made with, 1,283,546
Beef fat, cement, Portland, waterproof cement product made with, 1,283,546
—, —, waterproof cement product of made with, 1,283,546
—, cream, artificial, made with, 1,190,369
—, cream substitute made with, 1,216,052
—, food product made with, 1,191,388; 1,381,526
—, fruit preserved using, 1,236,382
—, gypsum, water-proof cement product of made with, 1,283,546
—, lard compound contg., 1,372,616
—, lime, water-proof cement product of made with, 1,283,546
—, magnesium oxychloride water-proof cement product of made with, 1,283,546
—, oleo made with, 1,488,918
—, plaster, water-proof cement product of made with, 1,283,546
—, vegetables preserved using, 1,236,382
Beef gall, medical compound contg., 1,389,677
Beef intestine, gut string made with, 1,204,812
—, sausage casing made with, 1,204,812
Beef marrow, cosmetic contg., 1,491,644
—, hair treatment composition contg., 1,491,644
"Beef middles," sausage casing, made with, 1,204,812
Beef oil, lard substitute made with, 1,218,758; 1,218,759
—, shortening contg., 1,288,853
—, *see also Fat; Lard; Margarin; Olein*
Beef round casings, sausage casing made with, 1,204,812
Beefsteak, calories in, 1,252,029
—, food contg., 1,252,029
Beef stearin, butter substitute made with, 1,417,893
—, food product made with, 1,417,893
—, *see also Stearin, beef*
Beef suet, food product made with, 1,380,815
—, rat poison made with, 1,220,593
—, rubber, hard, substitute made using, 1,512,979
Beef tallow, belt dressing made with, 1,180,392
—, candle made with, 1,248,402
—, fatty acids made with, 1,248,402
—, glycerol made with, 1,248,402
—, sizing composition contg., 1,299,663
—, soap made with, 1,248,402
—, soap, sulfur, made with, 1,278,518
—, stearic acid made with, 1,248,402
—, tire valve made air-tight using, composition contg., 1,212,925
—, *see also Tallow, beef*
Beef tenderloins, food product made with, 1,381,526
Beef tongue, curing of, apparatus for, 1,124,851
—, —, potassium nitrate for, 1,124,851
—, —, process for, 1,124,851
—, —, sodium carbonate for, 1,124,851
—, —, sodium chloride for, 1,124,851
—, —, sugar for, 1,124,851
—, food product made from, 1,208,175
Beef tongue leaf, mfr. of, gelatin for, 1,208,175
—, —, potassium nitrate for, 1,208,175
—, —, process for, 1,208,175
—, —, sodium chloride for, 1,208,175

Beef tongue leaf, mfr. of, sugar for, 1,208,175
Bee-gum, see Propolis
Bee hive, sterilization of, alkali for, 1,511,857
—, —, hypochlorite for, 1,511,857
—, —, process for, 1,511,857
—, —, sodium carbonate for, 1,511,857
—, —, sodium hypochlorite for, 1,511,857
Bee honey, see Honey
Beer, alcohol, removing from, 1,337,027; 1,337,850
—, beer, dealcoholized, made with, 1,223,121; Re-14,391; 1,265,274; 1,265,275
—, bottling, carbon dioxide atmosphere for, 1,361,498
—, brake lining made with, 1,162,371
—, brewing, process for, 1,328,888
—, carbonating of, process for, 1,215,864
—, carbon dioxide purified for, process for, 1,268,872
—, charging of, apparatus for, 1,137,149
—, —, process for, 1,137,149
—, clarifying of, potassium metasulfite for, 1,217,641
—, —, process for, 1,217,641
—, —, sodium bicarbonate for, 1,217,641
—, —, tartaric acid for, 1,217,641
—, coating composition made with, 1,360,066
—, coloring for, mfr. of, amylase for, 1,178,040
—, —, —, bacteria, lactic acid, for, 1,178,040
—, —, —, barley, pearl, croppings, for, 1,178,040
—, —, —, barley husks for 1,178,040
—, —, —, bean croppings for, 1,178,040
—, —, —, bran for, 1,178,040
—, —, —, carbohydrate for, 1,178,040
—, —, —, corn croppings for, 1,178,040
—, —, —, dextrin for, 1,178,040
—, —, —, diastase for, 1,178,040
—, —, —, lactic acid for, 1,178,040
—, —, —, maltose for, 1,178,040
—, —, —, "mazam" for, 1,178,040
—, —, —, pea croppings for, 1,178,040
—, —, —, peptones for. 1,178,040
—, —, —, phosphates for, 1,178,040
—, —, —, process for, 1,178,040
—, —, —, proteids for, 1,178,040
—, —, —, rye croppings for, 1,178,040
—, —, —, starch, gelatinized, for, 1,178,040
—, —, —, vegetable seeds, aleurone layer of, for, 1,178,040
—, —, —, wheat bran for, 1,178,040
—, coloring matter for, mfr. of, 1,418,945
—, concrete tanks treated for use in making, 1,162,515
—, de-alcoholized, dry extract of partly fermented, mfr. of, process for, 1,275,254
—, —, fermentation of, yeast and lactic acid bacteria for, 1,302,551; Re-14,889
—, —, flavoring, 1,354,585
—, —, flavoring material for, formula, 1,339,528
—, —, mfr. of, 1,302,551; Re-14,889; 1,390,710; 1,390,711; 1,421,737; 1,455,397
—, —, —, acacia for, 1,223,121; Re-14,391; 1,265,274; 1,265,275
—, —, —, alkali polysulfite for, 1,308,588
—, —, —, alkali sulfite for, 1,308,588
—, —, —, amino compounds for, 1,214,729; 1,214,730
Beer, de-alcoholized, mfr. of, apparatus for, 1,171,306; 1,243,811; 1,249,480; 1,250,884; 1,277,931; 1,487,842; 1,493,756; 1,493,757
—, —, —, bacteria, *B. bulgaricus*, for, 1,204,315
—, —, —, —, lactic acid, for, 1,204,315
—, —, —, barley for, 1,271,269
—, —, —, barley malt for, 1,487,842
—, —, —, beer for, 1,223,121; Re-14,391; 1,265,274; 1,265,275
—, —, —, calcium carbonate for, 1,204,315
—, —, —, "caluperline" for, 1,223,121; Re-14,391; 1,265,274; 1,265,275
—, —, —, carbon dioxide for, 1,265,274; 1,265,275; 1,271,269; 1,308,588; 1,493,756; 1,493,757
—, —, —, cereal for, 1,487,842
—, —, —, chalk for, 1,204,315
—, —, —, citric acid for, 1,204,315
—, —, —, corn for, 1,271,269; 1,487,842
—, —, —, corn flakes for, 1271,269
—, —, —, corn meal for, 1,271,269
—, —, —, dextrose for, 1,214,730
—, —, —, glucose for, 1,265,275; 1,271,269
—, —, —, grits for, 1,271,269
—, —, —, hops for, 1,214,729; 1,214,730; 1,223,121; Re-14,391; 1,243,440; 1,265,274; 1,265,275
—, —, —, isinglass for, 1,271,269
—, —, —, lactic acid for, 1,204,315
—, —, —, levulose for, 1,214,730
—, —, —, malt for, 1,243,440; 1,271,269; 1,487,842
—, —, —, maltose for, 1,214,730; 1,487,842
—, —, —, peosin compound for, 1,223,121; Re-14,391
—, —, —, potassium metabisulfite for, 1,223,121; Re-14,391; 1,265,274; 1,265,275
—, —, —, potassium polysulfite for, 1,308,588
—, —, —, process for, 1,171,306; 1,204,315; 1,214,729; 1,214,730; 1,223,121; Re-14,391; 1,243,440; 1,243,811; 1,249,480; 1,250,884; 1,265,274; 1,265,275; 1,271,269; 1,271,991; 1,287,842; 1,493,756; 1,493,757
—, —, —, quassia for, 1,223,121; Re-14,391; 1,265,274; 1,265,275
—, —, —, rice for, 1,271,269; 1,487,842
—, —, —, sodium chloride for, 1,223,121; Re-14,391; 1,265,274; 1,265,275
—, —, —, sugar for, 1,214,729; 1,214,730; 1,223,121; Re-14,391; 1,265,274; 1,265,275; 1,271,269
—, —, —, sugar, cane, for, 1,265,274; 1,265,275
—, —, —, —, invert, for, 1,214,730
—, —, —, sulfite for, 1,271,991
—, —, —, sulfur dioxide for, 1,308,588
—, —, —, sulfurous acid for, 1,271,991
—, —, —, tannic acid for, 1,271,991
—, —, —, tartaric acid for, 1,204,315
—, —, —, wheat for, 1,487,842
—, —, —, wort for, 1,204,315; 1,243,440; 1,487,842
—, —, —, yeast for, 1,243,440; 1,265,275
—, —, —, yeast, brewers for, 1,214,729; 1,214,730
—, —, *see also Beverage, dealcoholized; Beverage, non-alcoholic*
—, dealcoholizing, 1,351,521; 1,351,522; 1,426,066; 1,441,726

Beer, dealcoholizing, apparatus for, 1,396,232; 1,405,085
—, —, freezing process for, 1,453,313
—, —, inert gases for, 1,333,457
—, desiccated, mfr. of, process for, 1,212,722
—, ethyl alcohol made from, 1,212,722; 1,238,577
—, extract of, 1,290,191; 1,290,192
—, flavoring, process for, 1,337,850
—, flavoring agent for, mfr. of, 1,464,520
—, flavor of, restoring, 1,337,027
—, food product made with, 1,212,722; 1,514,780
—, friction lining made with, 1,162,371
—, fusel oil, removal of from, 1,238,577
—, gasket made with, 1,162,371
—, glycerol in, 1,390,711
—, lactic acid in, 1,432,422
—, low alcohol content, mfr. of, process for, 1,152,415
—, low-alcoholic, mfr. of, 1,328,888; 1,421,737; 1,432,422
—, mfr. of, air for, 1,235,231
—, —, alcohol for, 1,149,704; 1,302,549; 1,302,550; 1,302,551; Re-14,889; 1,302,552
—, —, alkali carbonate for, 1,149,704
—, —, alkali hydroxide for, 1,149,704
—, —, ammonium caseinate for, 1,214,518
—, —, ammonium hydroxide for, 1,149,704
—, —, ammonium phosphate for, 1,214,518
—, —, apparatus for, 1,162,213; 1,232,098; 1,235,231
—, —, arrowroot starch for, 1,214,518
—, —, banana for, 1,214,518
—, —, barley for, 1,214,518; 1,237,724
—, —, barley malt for, 1,163,453
—, —, beer wort for, 1,163,454
—, —, bran for, 1,237,724
—, —, bromelin for, 1,235,881; 1,235,882
—, —, carbon dioxide for, 1,235,231; 1,302,549; 1,302,550; 1,302,551; Re-14,889; 1,302,552
—, —, casein for, 1,235,881; 1,235,882
—, —, casein, salt of, for, 1,214,518
—, —, cassava starch for, 1,214,518
—, —, cereal for, 1,154,989; 1,214,518
—, —, corn for, 1,152,415; 1,214,518; 1,237,724
—, —, corn grits for, 1,214,518
—, —, corn meal for, 1,163,453
—, —, enzyme, proteolytic, for, 1,235,881; 1,235,882
—, —, ether for, 1,149,704
—, —, grit for, 1,237,724
—, —, hops for, 1,146,793; 1,149,704; 1,152,415; 1,232,098; 1,235,881; 1,235,882
—, —, hop bitter principle for, 1,149,704
—, —, hop resin for, 1,149,704
—, —, hydrochloric acid for, 1,214,518
—, —, kraeusen wort for, 1,163,454
—, —, lactic acid for, 1,149,704; 1,214,518
—, —, lupulin for, 1,149,704
—, —, malt for, 1,152,415; 1,154,989; 1,163,453; 1,163,454; 1,235,881; 1,235,882; 1,237,724
—, —, malt grits for, 1,146,793
—, —, malt substitute for, 1,152,415
—, —, mash for, 1,146,793
—, —, middlings for, 1,237,724
—, —, oats for, 1,214,518
—, —, papain for, 1,235,881; 1,235,882
—, —, pepsin for, 1,235,881; 1,235,882
Beer, mfr. of, peptase for, 1,235,881; 1,235,882
—, —, petroleum ether for, 1,149,704
—, —, phosphates, acid, for, 1,149,704
—, —, potassium caseinate for, 1,214,518
—, —, potato starch for, 1,214,518
—, —, process for, 1,146,793; 1,149,704; 1,152,415; 1,154,989; 1,162,213; 1,163,453; 1,163,454; 1,214,518; 1,228,917; 1,232,098; 1,234,255; 1,235,231; 1,235,881; 1,235,882; 1,237,724; 1,238,577; 1,286,055; 1,297,013; 1,421,737; 1,517,650
—, —, process for liberating proteolytic enzyme from yeast during, 1,177,117
—, —, protein for, 1,235,881; 1,235,882
—, —, rice for, 1,152,415; 1,163,453; 1,214,518; 1,237,724
—, —, root for, 1,214,518
—, —, rye for, 1,214,518
—, —, sago starch for, 1,214,518
—, —, sodium carbonate for, 1,149,704
—, —, sodium caseinate for, 1,214,518
—, —, sodium hydroxide for, 1,149,704
—, —, starch for, 1,214,518; 1,235,881; 1,235,882
—, —, steam for, 1,238,577
—, —, sulfurous acid for, 1,234,255
—, —, tannic acid for, 1,234,255
—, —, tube for, 1,214,518
—, —, turbidity removed from, process for, 1,162,213
—, —, wheat for, 1,214,518
—, —, wort for, 1,146,793; 1,149,704; 1,235,231; 1,286,055
—, —, yeast for, 1,152,415; 1,238,577; 1,286,055; 1,517,650
—, —, "yeast water" for, 1,214,518
—, near, mfr. of, 1,338,803
—, non-alcoholic mfr. of, 1,337,027; 1,441,726
—, —, —, bran for, 1,262,472
—, —, —, brewers extract for, 1,262,472
—, —, —, burtonizing salts for, 1,262,472
—, —, —, caramel for, 1,262,472
—, —, —, diastase for, 1,262,472
—, —, —, glucose for, 1,262,472
—, —, —, hops for, 1,262,472
—, —, —, isinglass for, 1,262,472
—, —, —, materials for, producing, 1,391,557
—, —, —, peptase for, 1,262,472
—, —, —, process for, 1,262,472; 1,302,549; 1,302,550; 1,302,551; Re-14,889
—, —, —, sodium chloride for, 1,262,472
—, —, —, sugar for, 1,262,472
—, —, —, vinegar for, 1,262,472
—, non-intoxicating, mfr. of, 1,338,803
—, packing made with, 1,162,371
—, paint contg., vinegar, glycerol and, 1,360,066
—, *o*-phosphoric acid in, 1,328,888
—, *m*-phosphoric acid for, precipitating proteids in, 1,328,888
—, plate, key, made with, 1,325,890
—, —, lithographic, made with, 1,325,890
—, —, press, made with, 1,325,890
—, plumber's soil contg., 1,417,258
—, preserving, carbon dioxide for, 1,361,498
—, preserving of, potassium metasulfite for, 1,217,641
—, —, process for, 1,217,641
—, —, sodium bicarbonate for, 1,217,641

Beer, preserving of, tartaric acid for, 1,217,641
—, radio-active, mfr. of, apparatus for, 1,175,533
—, —, —, paraffin for, 1,175,533
—, —, —, paraffin oil for, 1,175,533
—, —, —, process for, 1,175,533
—, —, —, silver for, 1,175,533
—, —, —, wax for, 1,175,533
—, recovering alcohol from, 1,364,160
—, residues from brewing, fungi grown on, 1,421,613
—, "spent," butyric acid mfr. from, 1,405,055
—, —, composition of, 1,149,700
—, stale, flies, lure for contg., 1,168,552
—, —, hessian fly, lure for contg., 1,168,552
—, —, insects, lure for contg., 1,168,552
—, —, moth millers, lure for contg., 1,168,552
—, —, stone, artificial, made with, 1,273,547
—, sterilization of, acid for, 1,140,717
—, —, alkali dioxide for, 1,140,717
—, —, alkali earth dioxide for, 1,140,717
—, —, apparatus for, 1,141,056
—, —, carbon dioxide for, 1,140,717; 1,141,056
—, —, citric acid for, 1,140,717
—, —, hydrogen dioxide for, 1,140,717
—, —, phosphoric acid for, 1,140,717
—, —, potassium dioxide for, 1,140,717
—, —, process for, 1,140,717; 1,141,056
—, —, sodium dioxide for, 1,140,717
—, —, sulfuric acid for, 1,140,717
—, —, ultra-violet ray for, 1,141,056
—, sterilizating of, apparatus for, 1,138,097
—, substitute for, mfr. of, 1,342,827
—, *temperance, see Beer, dealcoholized*
—, Welsh rarebit made with, 1,514,780
—, Yoghurt, mfr. of, *Bacillus Bulgaris* for, 1,228,916
—, —, —, process for, 1,228,916
—, —, —, yeast for, 1,228,916
—, *see also Ale; Beverage*
Beer-flavoring, formula for, salt 10 lbs., gum arabic, tragacanth or dextrin 10 lbs., sugar 3 lbs., potassium metabisulfite 1 lb., citric acid 1 lb., lupulin, tannin or quassia 2 oz., 1,354,585
Beer vinegar, see Vinegar, beer
Beer wort, beer made with, 1,163,454
—, beverage made with, 1,229,656
—, mfr. of, amylase for, 1,178,039
—, —, bacteria, lactic acid, for, 1,178,039
—, —, barley, pearl, offal, for, 1,178,039
—, —, bean croppings for, 1,178,039
—, —, bran for, 1,178,039
—, —, carbohydrate for, 1,178,039
—, —, corn for, 1,178,039
—, —, corn cortex for, 1,178,039
—, —, corn syrup for, 1,178,039
—, —, dextrin for, 1,178,039
—, —, diastase for, 1,178,039
—, —, glucose for, 1,178,039
—, —, grits for, 1,178,039
—, —, maltose for, 1,178,039
—, —, "mazam" for, 1,178,039
—, —, pea, aleurone layer of, for 1,178,039
—, —, peptones for, 1,178,039
—, —, phosphates for, 1,178,039
—, —, process for, 1,178,039
—, —, proteids for, 1,178,039
—, —, rice for, 1,178,039
Beer wort, mfr. of, starch, gelatinized, for, 1,178,039
—, —, vegetable seed, aleurone layer of, for, 1,178,039
—, —, yeast for, 1,178,039
—, sterilization of, air for, 1,250,079
—, —, alcohols for, 1,250,079
—, —, benzoic acid for, 1,250,079
—, —, boric acid for, 1,250,079
—, —, carbon dioxide for, 1,250,079
—, —, carbon monoxide for, 1,250,079
—, —, gas for, 1,250,079
—, —, hydrocarbon for, 1,250,079
—, —, hydrogen for, 1,250,079
—, —, hydrogen dioxide for, 1,250,079
—, —, nitrogen for, 1,250,079
—, —, nitrogen protoxide for, 1,250,079
—, —, oxygen for, 1,250,079
—, —, process for, 1,250,039
—, —, sugars for, 1,250,079
Beeswax, abrasive fabric made with, 1,141,371
—, acids removed from, process for, 1,264,185; 1,264,186
—, —, sodium chloride for, 1,264,185; 1,264,186
—, —, sodium hydroxide for, 1,264,185; 1,264,186
—, —, sodium sulfate for, 1,264,185; 1,264,186
—, airplane dope made with, 1,366,256
—, airplane fabric made with, 1,427,941
—, aluminum, cork coated with, made with, 1,376,737
—, —, fabric coated with, made using, 1,376,737
—, —, paper, tissue, coated with, made using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, silk coated with, made using, 1,376,737
—, —, soldering of, using, 1,516,759
—, —, wood coated with, made using, 1,376,737
—, aluminum alloy, soldering of, using, 1,516,759
—, aluminum powder, protecting coatings of, using, 1,181,889
—, aluminum ware, decorating of using, 1,243,362
—, animal bait contg., 1,366,509
—, apples preserved by coating with, 1,450,408
—, bactericide of lard and, 1,286,989
—, bait contg., 1,366,509
—, balloon fabric made with, 1,427,941
—, battery, dry, zinc can for made using, 1,477,109
—, bearing, packing for, made with, 1,324,763
—, beef, refrigeration of, using, 1,489,144
—, belt dressing contg., 1,211,638
—, blackboard, cleaner for, made with, 1,223,846
—, —, polish for, made with, 1,223,846
—, brass powder, protecting coatings of using, 1,181,889
—, bronze powder, protecting coatings of using, 1,181,889
—, candles mfr. from, 1,426,174
—, can sealing composition contg., 1,323,752; 1,341,489
—, caoutchouc composition contg., 1,437,487
—, cartridge shell, paper, made with, 1,135,356
—, casein composition made with, 1,437,487
—, casket, burial, finishing of, using, 1,481,433

Beeswax, celluloid substitute made with, 1,217,027; 1,442,917
—, celluloid toilet article filler contg., 1,436,203
—, cellulose ether solvent, 1,217,027; 1,217,028
—, cement, paint for, made with, 1,179,413
—, ceramic ware, gold decorated, made with, 1,438,799
—, cerotic acid in, 1,264,185; 1,264,186
—, cheese packed in metal foil coated with, 1,399,270
—, cigar, imitation, made with, 1,212,066
—, cleaner made with, 1,146,173; 1,223,846
—, coating composition made with, 1,179,413; 1,189,550; 1,189,551
—, coating composition for kitchen utensils contg., 1,328,556
—, coffin made with, 1,196,610
—, cold cream mfr. from, 1,332,190
—, collar, linen, composition for smoothing edges of, contg., 1,321,518
—, colored, candles decorated with, 1,426,174
—, colored leaf made with, 1,158,265
—, composition of, 1,264,185; 1,264,186
—, concrete, coating composition for, made with, 1,189,550; 1,189,551
—, —, paint for, made with, 1,179,413
—, concrete flooring treated with, 1,333,057
—, concrete surfaced using, 1,515,121
—, concrete water proofing compound contg., 1,415,849
—, concrete waterproofing material contg., 1,415,324
—, container, food, made with, 1,399,270; 1,466,380
—, copper powder, protecting coatings of using, 1,181,889
—, cork, aluminum coated, made using, 1,376,737
—, —, gold coated, made using, 1,376,737
—, —, lead coated, made using, 1,376,737
—, —, metal coated, made using, 1,376,737
—, —, zinc coated, made using, 1,376,737
—, cork substitute made with, 1,318,982
—, cotton thread, tip for, made with, 1,486,487
—, cutlery polishing mixture contg., 1,422,707
—, dental filling made with, 1,209,906
—, depilatory contg., 1,474,512
—, diaphragm, sound reproducing, made with, 1,206,881; 1,492,989
—, die plate made with, 1,376,365
—, disinfectant made with, 1,280,602; Re-14,562
—, dope contg., 1,366,256
—, egg preservative contg., 1,293,395
—, egg preserved with lard and, 1,286,989
—, emulsion of, mfr. of, ammonium hydroxide for, 1,185,213
—, —, —, palmitic acid sulfonated, for, 1,185,213
—, —, —, process for, 1,185,213
—, enameled article made using, 1,516,065
—, enamel ware, decorating of using, 1,243,362
—, etching reserve composition contg., 1,407,301
—, etching resist contg., 1,376,365; 1,438,598
—, ethyl cellulose solvent, 1,188,376; 1,217,027; 1,217,028
—, ethyl starch solvent, 1,350,820
—, fabric, aluminum coated, made using, 1,376,737
Beeswax, fabric, coated, made with, 1,222,967
—, —, composition for smoothing edges of, contg., 1,321,518
—, —, gold coated, made using, 1,376,737
—, —, lead coated, made using, 1,376,737
—, —, metal coated, made using, 1,376,737
—, —, waterproofing of, using, 1,242,327
—, —, zinc coated, made using, 1,376,737
—, felt, composite, made with, 1,503,613
—, filament, artificial, made with, 1,217,028
—, film made with, 1,217,027
—, film, motion picture, made with, 1,442,917
—, —, —, blemished, restorative, for contg., 1,139,680; 1,139,682; 1,139,683
—, —, —, —, restoring of, using, 1,192,424
—, film softener contg., 1,354,009
—, finish remover made with, 1,140,449; 1,160,394; 1,167,462; 1,167,469; 1,167,640; 1,172,773
—, floor wax contg., 1,389,391
—, foil, composite, made with, 1,503,613
—, food product, imitation, made with, 1,212,066
—, —, wrapping for, made with, 1,407,400
—, fruit, imitation, made with, 1,212,066
—, gelatin, glass substitute formed on, 1,442,917
—, —, mold for, made with, 1,502,803
—, gelatin substitute made with, 1,217,027
—, "glasoid" made with, 1,442,917
—, glass, cleaner for, made with, 1,223,846
—, —, gold decorated, made with, 1,438,799
—, —, polish for, made with, 1,223,846
—, glass substitute made with, 1,442,917
—, glassware made with, 1,239,051
—, gold, ceramic ware decorated with, made with, 1,438,799
—, —, cork coated with, made using, 1,376,737
—, —, fabric coated with, made using, 1,376,737
—, —, glass decorated with, made with, 1,438,799
—, —, paper, tissue, coated with, made using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, silk coated with, made using, 1,376,737
—, —, wood coated with, made using, 1,376,737
—, gold inlay made with, 1,209,906
—, gold leaf, imitation, made with, 1,158,265
—, granite, cleaner for, made with, 1,223,846
—, —, polish for, made with, 1,223,846
—, hair, artificial, made with, 1,217,028
—, hair ointment made with, 1,365,981
—, hat, bast, waterproofing of using, 1,197,304
—, —, chip, waterproofing of using, 1,197,304
—, —, straw, waterproofing of using, 1,197,304
—, hollow article made with, 1,506,061; 1,506,062
—, honey comb made with, 1,282,645
—, hydrogenating, 1,345,589
—, hydrogenation of, catalyst for, 1,300,144; 1,345,589
—, —, charcoal for, 1,300,144
—, —, cobalt, colloidal, as catalyst for, 1,226,620; Re-14,429
—, —, cobalt carbide as catalyst for, 1,226,620; Re-14,429
—, —, cobalt oxide as catalyst for, 1,226,620; Re-14,429
—, —, cobalt silicide as catalyst for, 1,226,620; Re-14,429
—, —, gasolene for, 1,345,589

Beeswax, hydrogenation of, iron, colloidal, as catalyst for, 1,226,620; Re-14,429
—, —, iron carbide as catalyst for, 1,226,620; Re-14,429
—, —, iron oxide as catalyst for, 1,226,620; Re-14,429
—, —, iron silicide as catalyst for, 1,226,620; Re-14,429
—, —, nickel, colloidal, as catalyst for, 1,226,620; Re-14,429
—, —, nickel carbide as catalyst for, 1,226,620; Re-14,429
—, —, nickel oxide as catalyst for, 1,226,620; Re-14,429
—, —, nickel silicide as catalyst for, 1,226,620; Re-14,429
—, —, petroleum for, 1,345,589
—, —, process for, 1,226,620; Re-14,429
—, —, texene for, 1,345,589
—, —, water gas for, 1,345,589
—, ice cream, imitation, made with, 1,212,066
—, impregnating substances with, 1,352,331
—, ink, marking, made with, 1,159,857
—, —, printers, medicated, made with, 1,233,962
—, —, transfer, made with, 1,159,857
—, insulating and sealing composition contg., 1,345,057
—, insulation, electric, made with, 1,242,592; 1,242,593
—, iodine solution container made with, 1,229,195
—, ironing wax pad made with, 1,189,499
—, lacquer made with, 1,242,592; 1,242,593
—, lead, cork coated with, made using, 1,376,737
—, —, fabric coated with, made using, 1,376,737
—, —, paper, tissue, coated with, made using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, silk coated with, made with, 1,376,737
—, —, wood coated with, made using, 1,376,737
—, leather, waterproofing of, composition for contg., 1,269,658
—, —, —, using, 1,329,162
—, leather dressing contg., 1,128,926; 1,338,286; 1,382,468
—, leather substitute made with, 1,218,982
—, leather surface repairing composition contg., 1,506,983
—, linen thread, tip for, made with, 1,486,487
—, lubricant made with, 1,200,617
—, marble, cleaner for, made with, 1,223,846
—, —, polish for, made with, 1,223,846
—, match waterproofing compound contg., 1,301,448
—, meat, imitation, made with, 1,212,066
—, —, refrigeration of, using, 1,489,144
—, metal, cork coated with, made using, 1,376,737
—, —, fabric coated with, made using, 1,376,737
—, —, paper, tissue, coated with, made using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, silk coated with, made using, 1,376,737
—, —, wood coated with, made using, 1,376,737
—, metal foil made with, 1,165,440
—, metal leaf made with, 1,165,440
Beeswax, metal leaf, protecting coatings of using, 1,181,889
—, metal powder, protecting coatings of using, 1,181,889
—, mold made with, 1,502,803
—, molded article made with, 1,141,610; 1,506,061; 1,506,062
—, moldproofing using, 1,407,400
—, motion picture screen made with, 1,487,747
—, myricyl palmitate in, 1,264,185; 1,264,186
—, negative, photographic, made using, 1,224,328
—, neutral, mfr. of, process for, 1,264,185; 1,264,186
—, —, —, sodium chloride for, 1,264,185; 1,264,186
—, —, —, sodium hydroxide for, 1,264,185; 1,264,186
—, —, —, sodium sulfate for, 1,264,185; 1,264,186
—, nitrostarch agglomerated with, 1,382,563
—, ointment contg., 1,312,047; 1,372,496; 1,494,562; 1,518,365
—, packing contg., 1,270,056; 1,355,830
—, packing, plastic, made with, 1,324,763
—, —, valve, contg., 1,283,994
—, paint made with, 1,145,186; 1,179,413; 1,311,945; 1,401,261
—, paint, anti-fouling, made with, 1,145,186
—, —, flat, made with, 1,173,183
—, painted surface, finishing of, using, 1,481,433
—, paint remover made with, 1,130,499; 1,143,387; 1,143,877; 1,165,148; 1,499,101
—, palm oil, sulfonated, sodium salt of, used to make miscible water and, 1,219,967
—, paper made with, 1,503,613
—, paper, aluminum coated, made using, 1,376,737
—, —, composite, made with, 1,503,613
—, —, glazed, made with, 1,508,720
—, —, gold coated, made using, 1,376,737
—, —, lead coated, made using, 1,376,737
—, —, metal coated, made using, 1,376,737
—, —, tissue, aluminum coated, made using, 1,376,737
—, —, —, gold coated, made using, 1,376,737
—, —, —, lead coated, made using, 1,376,737
—, —, —, metal coated, made using, 1,376,737
—, —, —, zinc coated, made using, 1,376,737
—, —, water-proofing of, using, 1,135,356
—, —, zinc coated, made using, 1,376,737
—, paper sized by, process for, 1,452,389
—, paper tube made with, 1,135,356
—, paper waterproofed by, process for, 1,452,389
—, paraffin wax and, metal foil coated with, 1,466,380
—, pencil lead made with, 1,504,209
—, phenol aldehyde condensate made with, 1,242,592; 1,242,593
—, photographic plates edged with, 1,436,629
—, piston, packing for, made with, 1,324,763
—, plastic made with, 1,196,610; 1,287,453
—, platinum inlay, made with, 1,209,906
—, poison tablet coated with, 1,335,488
—, polish contg., 1,136,742; 1,146,173; 1,182,516; 1,196,508; 1,223,846; 1,278,172; 1,289,103; 1,325,686; 1,390,691; 1,392,477; 1,407,074
—, polish, furniture, contg., 1,309,171

Beeswax, pork, refrigeration of, using, 1,489,144
—, pottery, decorating of using, 1,243,362
—, printing plate made using, 1,207,506; 1,242,523; 1,377,515; 1,383,172
—, printing plate, electrotype, made with, 1,210,872
—, —, mfr. of, negative for, made with, 1,484,347
—, —, photographic negative for, made using, 1,224,328
—, printing plate matrix made with, 1,382,713
—, protecting monetary documents by a mixture of aniline and, 1,353,720
—, puncture-closing composition contg., 1,299,273
—, record, phonograph, made with, 1,228,901; 1,228,902
—, —, —, label for, made with, 1,347,668
—, —, sound, made with, 1,145,360
—, —, sound reproducing, made with, 1,345,115
—, rust-preventing composition contg., 1,335,757
—, rust-proofing made with, 1,145,186
—, salve contg., 1,426,002
—, sand paper made with, 1,141,371
—, saponifying, ammonium hydroxide for, 1,415,850
—, scald on apples prevented by coating with, 1,450,408
—, shoes, waterproofing of, using, 1,329,162
—, shoe insole, "Gem," made with, 1,222,967
—, shoe polish made with, 1,189,445; 1,231,997
—, silk aluminum coated, made using, 1,376,737
—, —, artificial, made with, 1,217,028
—, —, gold coated, made using, 1,376,737
—, —, lead coated, made using, 1,376,737
—, —, metal coated, made using, 1,376,737
—, —, zinc coated, made using, 1,376,737
—, silk thread, tip for, made with, 1,486,487
—, silver inlay, made with, 1,209,906
—, sizing composition contg., 1,299,663
—, slate, cleaner for, made with, 1,223,846
—, —, polish for, made with, 1,223,846
—, soldering compound using, 1,516,759
—, solvent for, benzene as, 1,207,506
—, —, carbon tetrachloride as, 1,484,347
—, —, glycerol for, 1,415,324
—, —, turpentine as, 1,165,148
—, —, turpentine oil as, 1,145,186
—, starch ethers solvent, 1,350,820
—, steel etched using, 1,376,365
—, stencil made with, 1,376,365
—, stencil, metallic, made with, 1,311,275
—, stone, artificial, made with, 1,141,610
—, substitute for, Montan wax, chlorinated, as, 1,429,932
—, sulfur molded article polished using, 1,506,061; 1,506,062
—, surgical dressing made with, 1,264,185; 1,268,076
—, surgical swab made with, 1,229,195
—, tent fabric made with, 1,427,941
—, thread tip made with, 1,486,487
—, tin powder, protecting coatings of using, 1,181,889
—, transfer metallic product made with, 1,444,345; 1,515,676; 1,515,722
Beeswax, tree, gum disease of, curing of, using, 1,521,078
—, underwriters cloth made with, 1,427,941
—, valve packing grease contg., 1,384,714
—, varnish made with, 1,242,592; 1,242,593
—, varnish, spar-, made with, 1,442,917
—, varnish remover made with, 1,130,499; 1,143,387; 1,165,148; 1,499,101
—, vegetable, imitation, made with, 1,212,066
—, violin, coating of, using, 1,234,989
—, waterproofing made with, 1,231,687; 1,326,079
—, water-proofing using, 1,135,356; 1,242,327; 1,329,162; 1,407,400
—, water-proofing, composition for contg., 1,269,658
—, waterproofing canvas by, 1,364,475
—, waterproofing composition contg., 1,315,109; 1,315,110; 1,329,162; 1,359,826; 1,371,258; 1,395,885
—, waterproofing compound contg., 1,415,850
—, waterproof material made with, 1,407,400
—, waterproof wrapping material contg., 1,407,400
—, whale, refrigeration of, using, 1,489,144
—, white, adhesives, fireproof, made with, 1,248,092
—, —, cleaner made with, 1,239,416
—, —, fire extinguisher made with, 1,248,092
—, —, fireproofing made with, 1,248,092
—, —, gold leaf, applied to cloth using, 1,124,114
—, —, —, applied to fabric using, 1,124,114
—, —, —, applied to leather using, 1,124,114
—, —, —, applied to paper using, 1,124,114
—, —, leather, waterproofing of, using, 1,167,327
—, —, metal leaf, applied to cloth using, 1,124,114
—, —, —, applied to fabric using, 1,124,114
—, —, —, applied to leather using, 1,124,114
—, —, —, applied to paper using, 1,124,114
—, —, paint, fireproof, made with, 1,248,092
—, —, paper, fireproof sizing for, made with, 1,248,092
—, —, —, watermarked, imitation, made with, 1,479,337
—, —, plate, lithographic, made with, 1,185,506
—, —, polish made with, 1,239,416
—, —, silver leaf, applied to cloth using, 1,124,114
—, —, —, applied to fabric using, 1,124,114
—, —, —, applied to leather using, 1,124,114
—, —, —, applied to paper using, 1,124,114
—, —, starch, fireproof, made with, 1,248,092
—, —, thread coated using, 1,210,446
—, —, varnish, fireproof, made with, 1,248,092
—, —, water-proofing, using, 1,167,327
—, —, wood, water-proofing of, using, 1,167,327
—, window glass made with, 1,442,917
—, wood, aluminum coated, made using, 1,376,737
—, —, coating for, made with, 1,141,610; 1,234,989
—, —, gold coated, made using, 1,376,737
—, —, lead coated, made using, 1,376,737
—, —, metal coated, made using, 1,376,737
—, —, zinc coated, made using, 1,376,737
—, wood finishing composition contg., 1,279,878
—, yarn treated with castor oil, carbon tetrachloride and, 1,356,920

Beeswax, yellow, gold leaf, applied to cloth using, 1,124,114
—, —, —, applied to fabric using, 1,124,114
—, —, —, applied to leather using, 1,124,114
—, —, —, applied to paper using, 1,124,114
—, —, honey in, 1,124,114
—, —, metal leaf, applied to cloth using, 1,124,114
—, —, —, applied to fabric using, 1,124,114
—, —, —, applied to leather using, 1,124,114
—, —, —, applied to paper using, 1,124,114
—, —, silver leaf, applied to cloth using, 1,124,114
—, —, —, applied to fabric using, 1,124,114
—, —, —, applied to leather using, 1,124,114
—, —, —, applied to paper using, 1,124,114
—, —, solvent for, benzine as, 1,124,114
—, —, water-proofing, using, 1,167,327
—, —, wood, water-proofing of, using, 1,167,327
—, —, *see Beeswax*
—, zinc, cork coated with, made using, 1,376,737
—, —, fabric coated with, made using, 1,376,737
—, —, paper, tissue, coated with, made using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, silk coated with, made using, 1,376,737
—, —, wood coating with, made using, 1,376,737
Beeswax oil, shoe polish made with, 1,189,445
Beeswax scales, mfr. of, apparatus for, 1,174,207
—, —, process for, 1,174,207
Beets, bread contg., 1,387,387
—, butter substitute from, 1,403,122
—, cellulose from fuel, emulsion contg., 1,432,178
—, ethyl alcohol made with, 1,472,344
—, food product made with, 1,149,914
—, pectous material from, 1,393,660
—, *preserving of, see also Food product*
—, sugar from, 1,399,533
—, sugar, cattle food made from, 1,273,732
—, —, drying of, process for, 1,273,732
—, —, extract of, evaporating, 1,419,057
—, —, extraction from, 1,437,801
—, —, food product made with, 1,161,450; 1,419,057
—, —, sugar made from, 1,273,732
—, —, *see also Sugar beet*
Beet chips, jam mfr. from, 1,429,834
—, sugar extraction from, 1,437,801
Beet flour, food product made with, 1,161,450
—, laxative made with, 1,161,450
—, "vegatol," made with, 1,161,450
Beet harvester, construction of, 1,326,422
Beet juice, cattle feed made with, 1,515,968
—, liquid, purification of using, 1,515,968
Beet molasses, acetone from, 1,293,172
—, ethyl alcohol from, 1,293,172
—, sucrose recovery from, 1,433,655
—, *see also Molasses*
Beet pulp, paper mfr. with, 1,389,936
—, treating, sodium carbonate for, 1,389,936
Beet root, alcoholic liquid, non-potable mfr. from, 1,453,374
—, fuel, liquid mfr. with, 1,453,374
—, motor fuel mfr. with, 1,453,374
Beet sugar, laxative made with, 1,161,450
—, "vegatol" made with, 1,161,450
—, *see also Sucrose; Sugar, beet*
Beet sugar molasses, destructive distillation of, rubber vulcanizing accelerator obtained by, 1,343,224
—, rubber vulcanizing accelerator made from, 1,343,224
—, *see also Molasses, beet sugar*
Beet sugar residue, aluminum chloride made with, 1,320,193
—, fertilizer made with, 1,501,914; 1,501,915; 1,501,916
—, iron chloride made with, 1,320,193
—, potassium chloride made with, 1,320,193
—, potassium salt from, process for, 1,320,193
—, *see also Steffens waste water*
Beet sugar syrup, see Sugar, beet, syrup
Beet tops, bacteria, food stuff for contg., 1,472,344
—, ethyl alcohol made with, 1,472,344
—, ferments, food stuff for contg., 1,472,344
—, fungi, food stuff for contg., 1,472,344
—, humic substance made with, 1,472,344
—, molds, food stuff for contg., 1,472,344
—, mucors, food stuff for contg., 1,472,344
—, yeast, food stuff for contg., 1,472,344
Beggars Buttons, see Burdock root
Beggarweed, see Desmodium tortuosum meibomia
Behenic acid, acetamide, compound of and, 1,475,477
—, acetamide, compound of and, hydrogenation of, process for, 1,475,477
—, *p*-aminophenol, compound of and, 1,475,477
—, *p*-aminophenol, compound of and, hydrogenation of, process for, 1,475,477
—, aniline, compound of and, 1,475,477
—, —, —, hydrogenation of, process for, 1,475,477
—, benzidine, compound of and, 1,475,477
—, —, —, hydrogenation of, process for, 1,475,477
—, calcium soap of, 1,348,494
—, diphenylamine, compound of and, 1,475,477
—, —, —, hydrogenation of, process for, 1,475,477
—, *b*-naphthylamine, compound of and, 1,475,477
—, —, —, hydrogenation of, process for, 1,475,477
—, phenylenediamine, compound of and, 1,475,477
—, —, —, hydrogenation of, process for, 1,475,477
—, quinoline, compound of and, 1,475,477
—, —, —, hydrogenation of, process for, 1,475,477
—, *o*-toluidine, compound of and, 1,475,477
—, —, —, hydrogenation of, process for, 1,475,477
—, urea, compound of and, 1,475,477
—, —, —, hydrogenation of, process for, 1,475,477
—, xylidine, compound of and, 1,475,477
—, —, —, hydrogenation of, process for, 1,475,477
Beige S. 4185, silk dyed with, 1,446,860
Belladonna, ointment contg., 1,414,815
Belt, abrasive, see Abrasive belt

Belt, conveyor, mfr. of, fabric for, 1,194,704
—, —, —, process for, 1,194,704
—, —, —, rubber for, 1,194,704
—, endless, mfr. of, canvas for, 1,129,666
—, —, —, cord for, 1,129,666
—, —, —, process for, 1,129,666
—, —, —, rubber for, 1,129,666
—, impregnating compound for, formula, linseed oil 5 gal., gasolene 4 gal., whiting 5 lb., oil drier 1 qt., 1,334,436
—, mfr. of, alcohol for, 1,503,453
—, —, amyl acetate for, 1,503,453
—, —, amyloid for, 1,163,417
—, —, asbestine for, 1,218,052
—, —, asbestos for, 1,218,052
—, —, barium sulfate for, 1,163,417
—, —, benzene for, 1,503,453
—, —, borax for, 1,218,052
—, —, brownstone for, 1,163,417
—, —, camphor for, 1,503,453
—, —, canvas for, 1,165,780; 1,479,032
—, —, castor oil for, 1,479,032; 1,503,453
—, —, cellulose for, 1,163,417
—, —, cellulose nitrate for, 1,503,453
—, —, composition for, 1,302,463
—, —, cotton for, 1,218,052
—, —, duck for, 1,503,453
—, —, ethyl acetate for, 1,503,453
—, —, fabric for, 1,163,417; 1,165,780; 1,503,453
—, —, fat for, 1,165,780
—, —, fluorspar for, 1,218,052
—, —, leather, mineral tanned, and leather, vegetable tanned, for, 1,160,040
—, —, lubricating oil for, 1,218,052
—, —, oil for, 1,163,417; 1,165,780; 1,479,032
—, —, oil, animal, for, 1,218,052
—, —, —, vegetable for 1,218,052
—, —, paraffin for, 1,218,052
—, —, phenol aldehyde condensate for, 1,479,032
—, —, pigment for, 1,218,052
—, —, potassium antimonyl tartrate for, 1,218,052
—, —, process for, 1,160,040; 1,163,417; 1,165,780; 1,218,052; 1,479,032; 1,503,453
—, —, rubber for, 1,479,032; 1,503,453
—, —, salts for, 1,163,417
—, —, shellac for, 1,218,052
—, —, silica for, 1,218,052
—, —, silicates for, 1,163,417
—, —, sulfate for, 1,163,417
—, —, sulfuric acid for, 1,163,417
—, —, tannic acid for, 1,218,052
—, —, tannin for, 1,218,052
—, —, vegetable fiber for, 1,163,417
—, —, wax for, 1,163,417; 1,165,780; 1,479,032
—, —, wax tailings for, 1,218,052
—, rubber, belt dressing for, 1,429,498
—, —, dressing for, mfr. of molasses, black, for, 1,180,392
—, —, —, —, paraffin for, 1,180,392
—, —, —, —, process for, 1,180,392
—, —, —, —, rosin for, 1,180,392
—, skin and paper for, 1,300,535
—, slipping of, composition for applying to pulleys for preventing, 1,383,692
—, woven, impregnation of, apparatus for, 1,310,867
Belt, woven, impregnation of, asphalt for, 1,310,867
—, —, —, balata for, 1,310,867
—, —, —, benzene for, 1,310,867
—, —, —, benzine for, 1,310,867
—, —, —, linseed oil for, 1,310,867
—, —, —, process for, 1,310,867
—, *see also Brake lining*
Belt (apparell), mfr. of, glue for, 1,183,037
—, —, leather for, 1,183,037
—, —, process for, 1,183,037
—, —, rubber for, 1,183,037
—, —, rubber cement for, 1,183,037
Belt buckle, mfr. of, process for, 1,326,639
Belt covering, mfr. of, balata for, 1,162,396
—, —, gutta percha for, 1,162,396
—, —, process for, 1,162,396
—, —, rubber for, 1,162,396
—, —, thread for, 1,162,396
Belt dressing, "base oil" for mfr. of, 1,429,467
—, beeswax in, 1,211,638
—, castor oil in, 1,137,450
—, China wood oil in, 1,436,362
—, —, hydrogenated and polymerized, in, 1,395,744
—, coal tar pitch in, 1,395,744
—, dyestuff in, 1,211,638
—, fish oil in, 1,429,498
—, formula, castor oil, paraffin, Venetian turpentine, cinnamon oil, 1,398,600
—, —, rosin 61, beeswax 8, linseed oil 7, grease 7, pumice 16, dyestuff 1, 1,211,638
—, —, wool grease 96 lbs., rubber solution 14 lbs., sodium hydroxide 6 lbs., rosin 8 lbs., citronella oil ½ pint; 1,429,498
—, gasolene in, 1,429,498
—, grease in, 1,211,638
—, kerosene in, 1,137,450
—, leather, waterproofing of, using, 1,492,408
—, linseed oil in, 1,211,638
—, mfr. of, alcohol for, 1,315,246
—, —, aluminum dust for, 1,242,424
—, —, amyl alcohol for, 1,315,246
—, —, amylene for, 1,315,246
—, —, asbestine for, 1,218,052
—, —, asbestos for, 1,218,052
—, —, asphalt for, 1,214,157
—, —, base oil for, 1,492,408
—, —, beef tallow for, 1,180,392
—, —, borax for, 1,218,052
—, —, carbon bisulfide for, 1,315,246
—, —, carbon tetrachloride for, 1,315,246
—, —, castor oil for, 1,315,246
—, —, chlorine for, 1,315,246
—, —, chloroform for, 1,315,246
—, —, citronella oil for, 1,429,498
—, —, corn oil for, 1,315,246
—, —, cotton seed oil for, 1,315,246
—, —, ethyl alcohol for, 1,315,246
—, —, fish oil for, 1,429,498
—, —, fluorspar for, 1,218,052
—, —, gasolene for, 1,315,246; 1,429,498
—, —, hydrocarbon, unsaturated, for, 1,315,246
—, —, hydrochloric acid for, 1,315,246
—, —, hydroxy-acids for, 1,315,246
—, —, hydroxystearic acid for, 1,315,246
—, —, hydroxystearosulfuric acid for, 1,315,246

Belt dressing, mfr. of, linseed oil, for, 1,214,157; 1,242,424; 1,315,246
—, —, methyl alcohol for 1,315,246; 1,429,498
—, —, molasses, black, for, 1,180,392
—, —, neats foot oil for, 1,180,392
—, —, nitric acid for, 1,315,246
—, —, oil for, 1,214,157
—, —, oil, vegetable, for, 1,315,246
—, —, olefin for, 1,315,246
—, —, oleic acid, sulfonated, for, 1,315,246
—, —, paraffin for, 1,180,392
—, —, pigment for, 1,214,157; 1,218,052
—, —, pitch for, 1,214,157
—, —, process for, 1,180,392; 1,214,157; 1,218,052; 1,242,424; 1,429,498
—, —, rosin for, 1,180,392; 1,214,157; 1,242,424; 1,429,498
—, —, rubber solution for, 1,429,498
—, —, sesame oil for, 1,315,246
—, —, shellac for, 1,218,052
—, —, silica for, 1,218,052
—, —, sodium hydroxide for, 1,429,498
—, —, sodium hypochlorite for, 1,315,246
—, —, soya bean oil for, 1,315,246
—, —, sugar for, 1,214,157
—, —, sulfur for, 1,315,246
—, —, sulfur chloride for, 1,315,246
—, —, sulfur dioxide for, 1,315,246
—, —, turpentine pitch for, 1,214,157
—, —, wool grease for, 1,429,498
—, —, methyl alcohol in, 1,429,498
—, paper, Krafft, waterproofing of, using, 1,492,408
—, —, manilla, waterproofing of, using, 1,492,408
—, —, waterproofing of, using, 1,492,408
—, pine tree pitch in, 1,137,450
—, pumice in, 1,211,638
—, rosin in, 1,211,638
—, spruce tree pitch in, 1,137,450
—, waterproofing using, 1,492,408
—, *see also Leather, preserving, composition for*
Belting, asbestos in, 1,260,625
—, balata impregnated, mfr. of, castor oil, sulfonated, for, 1,219,349
—, —, —, process for, 1,219,349
—, —, —, sulfur for, 1,219,349
—, calcium oxide in, 1,260,625
—, coating for, asbestos in, 1,305,222
—, —, asphalt in, 1,305,222
—, —, bitumen in, 1,305,222
—, —, hemp in, 1,305,222
—, —, maltha in, 1,305,222
—, —, naphtha in, 1,305,222
—, —, oil, mineral, for, 1,305,222
—, —, petroleum in, 1,305,222
—, —, petroleum residuum for, 1,305,222
—, —, wool in, 1,305,222
—, composite, mfr. of, acetone for, 1,160,041
—, —, —, celluloid for, 1,160,041
—, —, —, cellulose nitrate for, 1,160,041
—, —, —, leather, mineral tanned, for, 1,160,041
—, —, —, —, vegetable tanned, for, 1,160,041
—, —, —, process for, 1,160,041
—, gutta percha impregnated, mfr. of, castor oil, sulfonated, for, 1,219,349
—, —, —, process for, 1,219,349
Belting, gutta percha impregnated, mfr. of, sulfur for, 1,219,349
—, lead, white, in, 1,260,625
—, leather, treatment of, diatomaceous earth for, 1,166,845; 1,166,846
—, —, —, gasolene for, 1,166,845; 1,166,846
—, —, —, hydrocarbon for, 1,166,845; 1,166,846
—, —, —, naphthalene for, 1,166,845; 1,166,846
—, —, —, paraffin for, 1,166,845; 1,166,846
—, —, —, process for, 1,166,845; 1,166,846
—, —, —, rosin for 1,166,845; 1,166,846
—, —, —, silica for, 1,166,845; 1,166,846
—, —, water-proofing of, paraffin for, 1,167,328
—, —, —, petrolatum for, 1,167,328
—, —, —, process for, 1,167,328
—, litharge in, 1,260,625
—, mfr. of, acetic acid for, 1,180,902
—, —, acetone for, 1,179,357
—, —, alcohol for, 1,265,855
—, —, alum for, 1,151,690; 1,180,902
—, —, ammonium chloride for, 1,180,902
—, —, ammonium hydroxide for, 1,180,902
—, —, asbestos for, 1,151,690; 1,260,625; 1,265,855
—, —, asphalt for, 1,179,357; 1,249,019
—, —, balata for, 1,218,350
—, —, barium nitrate for, 1,180,902
—, —, benzene for, 1,179,357
—, —, bone for, 1,151,690
—, —, bristles, animal, for, 1,230,597
—, —, calcium chloride for, 1,180,902
—, —, calcium oxide for, 1,260,625
—, —, canvas for, 1,180,902
—, —, caoutchouc for, 1,179,357
—, —, carbon bisulfide for, 1,180,902
—, —, casein composition for, 1,437,487
—, —, castor oil for, 1,180,902
—, —, cellite for, 1,179,357
—, —, cellon for, 1,179,357
—, —, celluloid for, 1,179,357
—, —, cellulose for, 1,180,902
—, —, cellulose solution for, 1,179,357
—, —, cement for, 1,192,362
—, —, claws, animal, for, 1,230,597
—, —, clay for, 1,163,262
—, —, cloth for, 1,180,902
—, —, cocoanut oil for, 1,180,902
—, —, corn oil for, 1,180,902
—, —, cotton for, 1,179,357; 1,180,902; 1,249,019
—, —, cotton fabric for, 1,163,262
—, —, cotton seed oil for, 1,180,902
—, —, cylinder oil for, 1,179,357
—, —, elaterite for, 1,218,350
—, —, fabric for, 1,179,357; 1,211,350; 1,218,350; 1,228,528; 1,491,412
—, —, fat for, 1,180,902
—, —, fatty acid for, 1,180,902
—, —, felt for, 1,179,357
—, —, formaldehyde for, 1,265,855
—, —, gilsonite for, 1,218,350
—, —, grease for, 1,180,902
—, —, gutta percha for, 1,179,357; 1,218,350
—, —, hemp for, 1,179,357
—, —, horn for, 1,230,597
—, —, horse hair for, 1,230,597
—, —, hydrochloric acid for, 1,180,902
—, —, iron alum for, 1,151,690

Belting, mfr. of, jute for, 1,179,357
—, —, lampblack for, 1,163,262
—, —, lead, white, for, 1,260,625
—, —, lead acetate for, 1,180,902
—, —, leather for, 1,192,362; 1,228,528
—, —, linen for, 1,179,357
—, —, linseed oil for, 1,163,262; 1,179,357; 1,180,902; 1,218,350
—, —, litharge for, 1,260,625
—, —, lubricating oil for, 1,249,019
—, —, magnesium sulfate for, 1,151,690
—, —, manganese dioxide for, 1,163,262
—, —, mineral rubber for, 1,179,357
—, —, mustard oil for, 1,180,902
—, —, ocher, red, for, 1,180,902
—, —, oil, animal, for, 1,180,902
—, —, —, mineral, for, 1,179,357
—, —, —, vegetable, for, 1,180,902
—, —, oleic acid, crude, for, 1,180,902
—, —, palm oil for, 1,180,902
—, —, paper pulp for, 1,180,902
—, —, paraffin for, 1,179,357
—, —, peanut oil for, 1,180,902
—, —, petroleum distillate for, 1,249,019
—, —, petroleum pitch for, 1,179,357
—, —, pigment for, 1,163,262
—, —, pine saw dust for, 1,265,855
—, —, poppy seed oil for, 1,179,357
—, —, potassium hydroxide for, 1,180,902
—, —, process for, 1,151,690; 1,163,262; 1,179,357; 1,180,902; 1,192,362; 1,211,350; 1,218,350; 1,220,927; 1,228,528; 1,230,597; 1,249,019; 1,265,855; 1,437,487; 1,491,412
—, —, resin for, 1,179,357
—, —, rosin for, 1,180,902
—, —, rubber for, 1,211,350; 1,230,597; 1,260,625; 1,491,412
—, —, rubber composition for, 1,437,487
—, —, saw dust for, 1,265,855
—, —, shellac for, 1,265,855
—, —, sodium hydroxide for, 1,180,902
—, —, sulfur for, 1,230,597; 1,260,625
—, —, sulfuric acid for, 1,180,902
—, —, tallow for, 1,180,902
—, —, textile for, 1,180,902
—, —, tung oil for, 1,180,902
—, —, umber for, 1,163,262
—, —, unatite for, 1,218,350
—, —, varnish, linseed oil, for, 1,179,357
—, —, viscose for, 1,180,902
—, —, whale bone for, 1,230,597
—, —, whiting for, 1,180,902
—, —, wire for, 1,192,362
—, —, wool for, 1,179,357; 1,180,902
—, —, wool fabric for, 1,163,262
—, —, zinc chloride for, 1,180,902
—, —, zinc oxide for, 1,180,902; 1,260,625
—, —, zinc white for, 1,180,902
—, rubber for, 1,260,625
—, rubber impregnated, mfr. of, castor oil, sulfonated, for, 1,219,349
—, —, —, process for, 1,219,349
—, —, —, sulfur for, 1,219,349
—, sulfur in, 1,260,625
—, zinc oxide in, 1,260,625
Bench block, mfr. of, Babbitt metal for, 1,236,134
Bench block, mfr. of, iron, cast, for, 1,236,134
—, —, lead for, 1,236,134
—, —, process for, 1,236,134
—, —, steel for, 1,236,134
Bengal Blue G., see Benzoazurine G
Bengal isinglass, see Agar-agar
Benguela copal, see Copal, Benguela
Beni-Hinoki wood chips, acetic acid, made with, 1,521,541
—, carbon, decolorizing, made with, 1,521,541
—, methyl alcohol made with, 1,521,541
—, wood spirits, made with, 1,521,541
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Benjoin, see Benzoin
Bensuccin, see Benzyl succinate
Bentonite, adhesive made with, 1,498,269; 1,498,270
—, ammonium hydroxide made with, 1,465,310; 1,480,291
—, asbestos, plasticity increased of using, 1,509,406; 1,509,478
—, bauxite, plasticity increased of using, 1,509,406; 1,509,478
—, —, refractory of, 1,442,413
—, benzine, refining of using, 1,515,733
—, bituminous material made with, 1,450,685; Re-15,944
—, calcium carbonate, plasticity increased of using, 1,509,406; 1,509,478
—, clay, plasticity increased of using, 1,509,406; 1,509,478
—, cement made with, 1,450,685; Re-15,944
—, cement rock, plasticity increased of using, 1,509,406; 1,509,478
—, ceramic article made with, 1,509,406; 1,509,478
—, emulsion made with, 1,498,387
—, emulsion, bitumen, sulfite liquor and, 1,450,685
—, emulsion contg., paper, waterproof, made with, 1,479,043
—, —, sheet, composite, made with, 1,479,043
—, flint, plasticity, increased of using, 1,509,406; 1,509,478
—, gasolene, refining of using, 1,515,733
—, hydrocarbon, refining of using, 1,515,733
—, insulating material contg., 1,386,008
—, insulation, electric, made with, 1,286,043
—, —, heat, made with, 1,509,478
—, kaolin, plasticity increased of using, 1,509,406; 1,509,478
—, kerosene, refining of using, 1,515,733
—, klingenburg, plasticity increased of using, 1,509,406; 1,509,478
—, leverrierite as constituent of, 1,465,310; 1,480,291
—, lubricant made with, 1,517,577
—, molded article made with, 1,509,406; 1,509,478
—, mortar made with, 1,509,478
—, naphtha, refining of using, 1,515,733
—, nitrogen fixation with, 1,465,310
—, paper, waterproof, made with, 1,479,043
—, paper article, paste, for, made with, 1,450,685; Re-15,944
—, paper de-inked with, 1,421,195
—, petroleum products of using, 1,515,733

Bentonite, plastic made with, 1,509,406; 1,509,478
—, refractory contg., 1,442,413
—, refractory made with, 1,509,478
—, resistors coated with boron compounds and, 1,365,333
—, road paving made with, 1,450,685; Re-15,944
—, "rubber emulsion" made with, 1,498,387
—, shale, plasticity increased of using, 1,509,406; 1,509,478
—, sheet, composite, made with, 1,479,043
—, stencil made with, 1,519,975
—, stone, artificial, made with, 1,487,057
—, vegetable oil refining element constructed with, 1,435,972
—, *see also Aluminum silicates; Clay; Denver mud; Denver clay; Gumbo; Paper clay; Soap clay*
Benzacetin, see Acet-amino-ethyl-salicylic acid
3.4-Benzacridine, derivatives of, mfr. of, 1,455,488
8-Benzal-7-acenaphthenone, dyestuff made with, 1,497,231
8-Benzal-7-acenaphthenone, melting point of, 1,497,231
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p-Benzalacetone-arsonic acid, arsenic derivatives from, 1,425,929
p-Benzalacetone-arsonic acid, semicarbazone of, preparing, 1,425,929
p-Benzalacetone-arsonic acid, see also 4-(g-Keto-Δ^a-butenyl)-benzenearsonic acid
Benzaldehyde, 3-acetyl-4.5-diketo(2'.3'-dimethyl-5-keto-1-phenyl-pyrazolinyl)-2-phenyl-pyrrolidine made with, 1,148,637
—, 3-acetyl-4.5-diketo-1-*o*-methoxyphenyl-2-phenyl-pyrrolidine made with, 1,148,637
—, 3-acetyl-4.5-diketo-2-phenyl-1-quinolyl-pyrrolidine made with, 1,148,637
—, 3-acetyl-4.5-diketo-2-phenyl-1-*o*-tolyl-pyrrolidine made with, 1,148,637
—, *tert*-amylamine, compound of and, 1,434,909
—, arsanilic acid, pyruvic acid, compound of and with, 1,501,894
—, arsenic compound made with, 1,501,894
—, barium chloride made with, 1,495,538
—, benzaldehyde-choleic acid made with, 1,252,212
—, benzoic acid made with, 1,151,255; 1,193,795
—, 3-benzoyl-4.5-diketo-1-*o*-methoxyphenyl-2-phenyl-pyrrolidine made with, 1,148,637
—, 3-benzoyl-4.5-diketo-1-(or 2)-phenyl-2(or 1)-*p*-tolyl-pyrrolidine made with, 1,148,637
—, benzyl alcohol from, 1,410,223
—, benzyl alcohol made using, 1,247,629
—, benzyl cellulose, removal from of, 1,483,738
—, binder made with, 1,409,275
—, brom-hydrocarbons, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, caoutchouc, *b.g*-dimethylerythrene, vulcanization of using, 1,149,580
—, —, erythrene, vulcanization of using, 1,149,580
—, —, isoprene, vulcanization of using, 1,149,580
Benzaldehyde, carbon tetrachloride, copper container for, prevention of corrosion of using, 1,151,255
—, —, freezing point of mixture of and, 1,270,394
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, cellulose acetate, dyestuff for made with, 1,483,797
—, cellulose acetate solvent, 1,478,137
—, cellulose ether solvent, 1,467,104
—, chloral, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,265
—, chloroform, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, compound, $C_{19}H_{16}O_6N_3SNa$, made with, 1,483,797
—, desoxycholic acid, addition product of and, 1,252,212
—, diamino-triphenyl-methane-sulfonic acid made with, 1,172,061
—, *s*-dichlorethane, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, dichlorethylene, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, dyestuff made with, 1,149,575; 1,172,061; 1,204,639; 1,218,232; 1,244,149; 1,430,899; 1,483,084; 1,483,797
—, ethyl cellulose solvent, 1,467,104
—, ethylenediamine, condensation product of and, vulcanization accelerator, 1,503,702
—, —, —, vulcanization process using, 1,503,702
—, film, photographic, made with, 1,467,104
—, finish remover made with, 1,169,783
—, fire-extinguisher contg., 1,151,255
—, —, carbon tetrachloride and, 1,270,394
—, fluoro-hydrocarbons, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, food product contg., 1,397,723
—, formation from benzal chloride, 1,357,160
—, fruit kernel ingredient, 1,416,128
—, iodo-hydrocarbons, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, iron, rust, removal from using, 1,470,225
—, manganese dioxide for mfr. of, 1,365,956
—, mfr. of, 1,405,261
—, —, air for, 1,284,887; 1,321,959
—, —, aldehydes for, 1,431,470
—, —, aluminum oxide as catalyst for, 1,284,887
—, —, antimony oxide as catalyst for, 1,284,887
—, —, apparatus for, 1,488,278; 1,502,941
—, —, asbestos, platinized as catalyst for, 1,284,887
—, —, *p*-benzalamino-phenol for, 1,431,470
—, —, *N*-benzal-*p*-toluidine for, 1,431,470
—, —, benzene for, 1,431,470

Benzaldehyde, mfr. of, benzyl alcohol for, 1,151,255; 1,487,020; 1,488,278
—, —, benzyl bromide for, 1,272,522
—, —, benzyl chloride for, 1,151,255; 1,272,522; 1,306,221
—, —, bibenzyl for, 1,502,941
—, —, bismuth oxide as catalyst for, 1,284,887
—, —, calcium nitrate for, 1,272,522
—, —, carbon as catalyst for, 1,284,887
—, —, catalyst for, mfr. of, ammonium bichromate for, 1,486,781
—, —, —, —, ammonium metavanadate for, 1,486,781
—, —, —, —, boric acid for, 1,487,020
—, —, —, —, boron oxides for, 1,487,020
—, —, —, —, brick, fire-, for, 1,487,020
—, —, —, —, carbonates for, 1,487,020
—, —, —, —, cerium(ic) chromate for, 1,486,781
—, —, —, —, cerium(ic) iron chromate for, 1,486,781
—, —, —, —, cerium(ic) vanadate for, 1,486,781
—, —, —, —, chromium oxide for, 1,486,781
—, —, —, —, chromium vanadate for, 1,486,781
—, —, —, —, cobalt chromate for, 1,486,781
—, —, —, —, cobalt molybdate for, 1,486,781
—, —, —, —, clay for, 1,487,020
—, —, —, —, clay burnt, for, 1,487,020
—, —, —, —, iron(ic) chloride for, 1,486,781
—, —, —, —, iron chromate for, 1,486,781
—, —, —, —, iron(ic) chromate for, 1,486,781
—, —, —, —, iron molybdate for, 1,486,781
—, —, —, —, iron molybdo chromate for, 1,486,781
—, —, —, —, iron oxide for, 1,486,781
—, —, —, —, iron vanado chromate for, 1,486,781
—, —, —, —, iron(ic) vanado chromate for, 1,486,781
—, —, —, —, kieselguhr for, 1,487,020
—, —, —, —, magnesia for, 1,487,020
—, —, —, —, nickel chromate for, 1,486,781
—, —, —, —, nickel molybdate for, 1,486,781
—, —, —, —, nickel vanadate for, 1,286,781
—, —, —, —, nitrates for, 1,487,020
—, —, —, —, nitric acid for, 1,486,781
—, —, —, —, oxide for, 1,486,781; 1,487,020
—, —, —, —, palladium oxide for, 1,486,781
—, —, —, —, phosphoric acid for, 1,487,020
—, —, —, —, phosphorus oxides for, 1,487,020
—, —, —, —, process for, 1,486,781; 1,487,020
—, —, —, —, silica for 1,487,020
—, —, —, —, vanadium oxide for, 1,486,781
—, —, —, —, vanadium pentoxide for, 1,486,781
—, —, cellulose for, 1,488,278
—, —, cerium oxide as catalyst for, 1,284,887
—, —, cerium sulfate as catalyst for, 1,302,273
—, —, chromium oxide as catalyst for, 1,284,887
—, —, chromyl chloride for, 1,284,887
—, —, cobalt oxides for, 1,284,887
—, —, cobalt oxide as catalyst for, 1,284,887
—, —, copper sulfate as catalyst for, 1,302,273
—, —, dimethyl sulfate for, 1,431,470
—, —, ferric sulfate as catalyst for, 1,302,273
—, —, granite for, 1,488,278
—, —, hydrochloric acid for, 1,431,470
—, —, iron oxides as catalyst for, 1,284,887
—, —, kaolin as catalyst for, 1,284,887
—, —, lead nitrate for, 1,272,522
Benzaldehyde, mfr. of, magnesium oxide as catalyst for, 1,284,887
—, —, manganese dioxide for, 1,284,887; 1,302,273
—, —, metal oxide as catalyst for, 1,284,887
—, —, molybdenum oxide as catalyst for, 1,284,887; 1,321,959
—, —, molybdenum trioxide as catalyst for, 1,321,959
—, —, nickel oxides for, 1,284,887
—, —, nickel oxides as catalyst for, 1,284,887
—, —, nitric acid for, 1,151,255
—, —, nitrobenzene for, 1,431,470
—, —, oak, white, for, 1,488,278
—, —, oxygen for, 1,284,887; 1,321,959; 1,502,941
—, —, ozone for, 1,321,959
—, —, platinum as catalyst for, 1,284,887
—, —, porcelain as catalyst for, 1,284,887
—, —, potassium permanganate for, 1,488,278
—, —, process for, 1,151,255; 1,272,522; 1,284,887; 1,302,273; 1,321,959; 1,431,470; 1,486,781; 1,487,020; 1,488,278; 1,502,941
—, —, silver oxide as catalyst for, 1,284,887
—, —, sodium carbonate for, 1,431,470
—, —, sodium nitrate for, 1,272,522
—, —, sulfuric acid for, 1,284,887; 1,302,273
—, —, tin oxide as catalyst for, 1,284,887
—, —, titanium oxide as catalyst for, 1,284,887
—, —, toluene for, 1,284,887; 1,302,273; 1,321,959; 1,365,956; 1,431,470; 1,486,781
—, —, tungsten oxide as catalyst for, 1,284,887
—, —, uranium oxide as catalyst for, 1,284,887
—, —, vanadium oxide as catalyst for, 1,284,887
—, —, wood for, 1,488,278
—, —, xylene for, 1,431,470
—, —, zinc oxide as catalyst for, 1,284,887
—, molded article made with, 1,503,392
—, *o*-nitroaniline condensed with, 1,430,899
—, *a*-(*a*-nitro-ethyl)-benzyl alcohol made with, 1,356,877
—, paint remover made with, 1,328,080
—, pentachlorethane, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, perbenzoic acid made with, 1,179,421
—, phenol aldehyde condensate made with, 1,503,392
—, phenylmethylaminopropanol mfr. from, 1,356,877
—, 2-phenyl-quinoline-4.6-dicarboxylic acid, ethyl-ester, made with, 1,138,937
—, plastic made with, 1,467,104
—, purification of, benzoic acid from, 1,302,273
—, —, toluene from, 1,302,273
—, purifying, 1,405,261
—, pyruvic acid, arsanilic acid, compound of and with, 1,501,894
—, radium chloride made with, 1,495,538
—, rubber, Para, vulcanization of using, 1,149,580
—, —, plantation, vulcanization of using, 1,149,580
—, rust-proofing composition contg., 1,185,361
—, separating from maleic acid, 1,377,534
—, steel, rust, removal from using, 1,470,225
—, substitution products of, mfr., 1,405,261

Benzaldehyde, substitution products of, sulfuric acid for mfr. of, 1,365,956
—, sulfuryl chloride made with, 1,364,738
—, tetrachlorethane, copper container for, prevention of corrosion of using, 1,151,255
—, *s*-tetrachlorethane, copper container for, prevention of corrosion of using, 1,151,255
—, tetrachlorethane, iron container for, prevention of corrosion of using, 1,151,255
—, *s*-tetrachlorethane, iron container for, prevention of corrosion of using, 1,151,255
—, tetrachlorethylene, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, 4.4′-tetramethyldiamino-triphenyl-carbinol made with, 1,483,233
—, 4.4′-tetramethyldiamino-triphenylmethane made with, 1,483,233
—, toluene oxidized to, 1,377,534
—, *m*-toluidine, ethyl *a*-keto-levulinate, compound made with, 1,148,637
—, trichlorethane, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, trichlorethylene, copper container for, prevention of corrosion of using, 1,151,255
—, —, iron container for, prevention of corrosion of using, 1,151,255
—, tropinone precipitated by, 1,419,091
—, trypanocidal compound made with, 1,501,894
—, uranium chloride made with, 1,495,538
—, vanadium chloride made with, 1,495,538
—, varnish made with, 1,467,104
—, varnish remover made with, 1,328,080
—, viscose precipitated with bisulfite and, 1,292,544
—, vulcanization process using, 1,434,909
Benzaldehyde-amine, see Hydrobenzamide
Benzaldehyde-amylamine condensation product, see Amylamine-benzaldehyde condensation product
p-Benzaldehyde-arsenious acid, mfr. of, alcohol for, 1,472,778
—, —, *p*-aminobenzaldehyde for, 1,472,778
—, —, hydrochloric acid for, 1,472,778
—, —, process for, 1,472,778
—, —, sodium arsenite for, 1,472,778
—, —, sodium hydroxide for, 1,472,778
—, —, sodium nitrite for, 1,472,778
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b-Benzaldehydearsonic acid, arsenic derivatives from, 1,425,929
—, semicarbazone of, arsenic compounds from, 1,425,930
—, *see also p-Formyl-benzenearsonic acid*
Benzaldehyde-choleic acid, composition of, 1,252,212
—, mfr. of, benzaldehyde for, 1,252,212
—, —, desoxycholic for, 1,252,212
—, —, petroleum ether for, 1,252,212
—, —, process for, 1,252,212
—, properties of, 1,252,212
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Benzaldehyde-diethylacetal, see a.a-Diethoxy-toluene
Benzaldehyde disulfonic acid, dyestuff made with, 1,218,232
Benzaldehyde-2.4-disulfonic acid, dyestuff made with, 1,478,039
Benzaldehyde-2.5-disulfonic acid, dyestuff made with, 1,478,039
Benzaldehyde-3.4-disulfonic acid, dyestuff made with, 1,218,232
Benzaldehyde green, see Malachite green
Benzaldehyde-1-sulfonic acid, dyestuff made with, 1,478,039
Benzaldehyde-4-sulfonic acid, dyestuff made with, 1,478,039
Benzaldehyde-*o*-sulfonic acid, lake made with, 1,232,552
3.4-Benzacridine, compounds of, mfr. of, 1,255,740
p-Benzalamino-phenol, *p*-amino-phenol made with, 1,431,470
—, benzaldehyde made with, 1,431,470
—, *p*-methylamino-phenol made with, 1,431,470
Benzal bromide, see a.a-Dibrom-toluene
N-Benzal-1-brom-2-naphthylamine, 1-brom-*N*-methyl-2-naphthylamine made with, 1,431,470
Benzal chloride, see a.a-Dichlor-toluene
Benzaldipiperyl, carbon bisulfide derivative of, rubber vulcanization accelerator, 1,126,469
—, rubber, synthetic, 2.3-dimethyl-butadiene, vulcanization of, using, 1,130,903
—, rubber vulcanization accelerator, 1,126,469
—, urea derivative of, rubber vulcanization accelerator, 1,126,469
Benzal green, see Malachite green
N-Benzal-*p*-toluidine, benzaldehyde made with, 1,431,470
N-Benzal-*p*-toluidine, *N.N*-dimethyl-*p*-toluidine made with, 1,431,470
—, *N*-methyl-*p*-toluidine made with, 1,431,470
—, *p*-toluidine made with, 1,431,470
Benzamide, cellulose ether solvent contg., 1,494,471
—, ethyl cellulose solvent contg., 1,494,471
—, film made with, 1,494,471
—, rubber substitute made with, 1,159,258
—, varnish made with, 1,159,258
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Benzanilide, ethyl cellulose plasticizer, 1,460,097
—, film contg., 1,460,097
Benzanthrone, anthraquinone and glycerol for mfr. of, 1,365,024
—, dibenzanthrone made with, 1,464,598; 1,478,027
—, dyestuff made with, 1,478,027
—, purification of, brombenzene for, 1,365,024
—, —, chlorbenzene for, 1,365,024
—, —, *para-di*-chlorbenzene for, 1,365,024
—, —, chlortoluene for, 1,365,024
—, —, *para*-dichlorbenzene for, 1,365,024
1-Benzazine, see Quinoline
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Benzene, abietic acid, hydrogenation of using, 1,249,050
—, abrasive, binder for, made with, 1,209,333; 1,468,960
—, abrasive belt, water-proof, made with, 1,484,759
—, abrasive discs, water-proof, made with, 1,484,759
—, abrasive paper, water-proof, made with, 1,484,759
—, abrasive wheel, water-proof, made with, 1,484,759
—, acacia as emulsifier of, 1,440,356
—, acetic arsenic acid solvent, 1,445,685
—, acetone removed from cellulose nitrate silk by, 1,441,204
—, 3-acetyl-4.5-diketo(2.3′-dimethyl-5-keto-1-phenyl-pyrazolinyl)-2-phenyl-pyrrolidine made with, 1,148,637
—, 3-acetyl-4.5-diketo-2-furyl-1-phenyl-pyrrolidine made with, 1,148,637
—, 3-acetyl-4.5-diketo-1-phenyl-2-piperonyl-pyrrolidine made with, 1,148,637
—, 3-acetyl-4.5-diketo-2-phenyl-1-quinolyl-pyrrolidine made with, 1,148,637
—, acetylization of, aluminum chloride as catalyst for, 1,512,225
—, —, apparatus for, 1,512,225
—, —, process for, 1,512,225
—, *p*-(acetyl-methyl-amino)-phenol made with, 1,434,429
—, *p*-(acetyl-methyl-amino)-phenyl acetate made with, 1,434,429
—, acid-proofing made with, 1,234,381
—, acid-proof material made with, 1,513,133
—, adhesive made with, 1,389,574; 1,441,160; 1,500,393; 1,510,591; 1,515,439
—, adhesive cement contg., 1,467,356
—, adhesive composition prepared with, 1,431,165
—, agar-agar, colloidal, made with, 1,392,849
—, agar-agar as emulsifier of, 1,440,356
—, air, explosive mixtures of and, 1,143,623
—, airplane dope contg., 1,156,894; 1,234,381; 1,303,563; 1,315,216; 1,320,290; 1,329,386; 1,347,801; 1,363,763; 1,366,256; 1,388,827; 1,388,828; 1,393,355; 1,488,608
—, airplane dope made fireproof, formula containing, 1,309,581
—, airplane fuel contg., 1,420,007
—, airplane lacquer contg., 1,345,354
—, albumen, colloidal, made with, 1,392,849
—, albumen as emulsifier of, 1,440,356
—, alcohols made with, 1,365,046
—, alcohol, absolute, made with, 1,508,435
—, —, solidified, contg., 1,416,493
—, alcohol dehydrated with, 1,417,477
—, alcohol separated from, 1,417,477
—, alcohol separation from sulfuric acid liquors by, 1,365,046
—, alkali acetyl-salicylate made with, 1,217,862
—, alkali earth acetyl-salicylate made with, 1,217,862
—, alkali ethyl-xanthate made with, 1,507,089
—, alkali metal, lead alloy contg., treatment of using, 1,197,329
—, alkali proofing made with, 1,234,381
Benzene, alkali-proof material made with, 1,513,133
—, alkaloids, extraction of, using, 1,504,588
—, —, extracted by, 1,447,400
—, alkamine amino-alkoxy-benzoic acid ester solvent, 1,317,250
—, alloy resistant to, 1,393,388
—, *b*-(*N.N*-allyl-*iso*-amyl)aminoethyl-*p*-aminobenzoate made with, 1,476,934
—, *g*-(*N.N*-allyl-*n*-butyl)aminopropyl-*p*-aminobenzoate made with, 1,476,934
—, *g*-(*N.N*-allyl-*n*-butyl)aminopropyl-*p*-nitrobenzoate made with, 1,476,934
—, aluminum acetate, therapeutic compound of, solvent, 1,132,709
—, aluminum chloride, catalyst, recovery of using, 1,202,081
—, aluminum filings, coated, made with, 1,204,709
—, aluminum oleate solvent, 1,393,833; 1,519,803
—, aluminum paint contg., 1,411,673
—, aluminum powder, protecting coatings of using, 1,181,889
—, amber resin solvent contg., 1,150,047
—, *m*-aminoanisic acid, alkamine ester of, solvent, 1,317,250
—, amino-compounds of, phenol aldehyde condensate made with, 1,143,714
—, *o*-aminomethoxybenzoic acid, alkamine ester of, solvent, 1,317,250
—, *p*-aminomethoxybenzoic acid, alkamine ester of, solvent, 1,317,250
—, *p*-amino-phenol made with, 1,431,470
—, ammonia liquor purified by, 1,346,106
—, ammonium tannate as emulsifier of, 1,440,356
—, amyl acetate made with, 1,197,019
—, amyloid, waterproofing of using, 1,499,025
—, (*tert*)-amyl vanadate solvent, 1,133,961
—, analgesic made with, 1,483,217
—, aniline black made with, 1,350,600
—, aniline dissolved in, 1,303,624
—, aniline hydrochloride made with, 1,303,624
—, anthracene made with, 1,515,325
—, anthracene solvent, 1,303,639
—, anthranilic acid made with, 1,458,715
—, anthraquinone derivatives solvent, 1,417,875
—, antimony trichloride solvent, 1,388,828; 1,388,829; 1,418,610
—, antiseptic made with, 1,425,882; 1,425,883; 1,425,884
—, architectural finish contg., 1,290,035
—, arsenical solution contg., 1,456,509
—, arsono-acetic acid made with, 1,445,685
—, asbestos band made with, 1,301,612
—, asphalt, hydrocarbons, separation from of with, 1,278,023
—, asphalt paint containing, 1,447,782
—, asphalt solvent, 1,395,396; 1,474,423
—, asphaltum, artificial, made with, 1,465,317
—, asphaltum solvent, 1,420,086; 1,426,842
—, "assphtlein" contg., 1,471,566
—, atophan, benzyl ester of, made with, 1,378,343
—, automobile tops made with, 1,360,763
—, automobile top lining treated with, 1,412,014

Benzene, Bakelite solvent, 1,425,784
—, balata latex, chlorination of, using, 1,491,265
—, balata solvent, 1,180,704; 1,285,105; 1,312,452
—, balata vulcanized with, 1,463,794
—, balloon, toy, colored, using, 1,239,180
—, —, —, ornamenting of, using, 1,251,182
—, barium acetyl-salicylate made with, 1,217,862
—, barley seed, treatment of using, 1,218,850
—, battery, dry, made with, 1,196,225; 1,484,780
—, —, —, depolarizer for, made with, 1,484,780
—, —, primary, copper oxide depolarizer, made with, 1,506,425
—, —, storage, container for, made with, 1,447,782
—, —, —, separator for, made with, 1,243,372; 1,490,204; 1,500,220
—, —, —, temperature indicating device for, made with, 1,374,857
—, —, zinc electrode for, coating of using, 1,484,783
—, beeswax solvent, 1,207,506
—, belt made with, 1,503,453
—, belt, woven, impregnated with, 1,310,867
—, belting made with, 1,179,357
—, benzaldehyde made with, 1,431,470
—, benzene-disulfonic acid made with, 1,210,725; 1,210,726; 1,279,295; 1,279,296; 1,301,360
—, *m*-benzenedisulfonic acid made with, 1,227,252
—, *o*-benzenedisulfonic acid made with, 1,227,252
—, *p*-benzenedisulfonic acid made with, 1,227,252
—, benzene methylethyl sulfonamide prepared from, 1,454,959; 1,454,960; 1,454,961
—, benzene *mono*-methyl sulfonamide prepared from, 1,454,959; 1,454,960; 1,454,961
—, benzene-sulfonic acid made with, 1,210,725; 1,210,726; 1,212,612; 1,213,142; 1,227,252; 1,247,499; 1,260,852; 1,300,228; 1,301,360; 1,301,909; 1,312,127; 1,406,745; 1,466,991; 1,503,937
—, benzene-sulfonic acid, sulfuric acid, separation from of, using, 1,229,933
—, benzene-sulfonic acid solvent, 1,212,612; 1,247,499
—, benzene-*mono*sulfonic acid made with, 1,309,683
—, benzine made with, 1,325,299
—, "benzol, 90%," contg., 1,317,359; 1,344,545
—, benzoquinone from, 1,401,937
—, benzoyl-benzoic acid made with, 1,489,744
—, *o*-benzoyl-benzoic acid made with, 1,515,325
—, benzoyl chloride made with, 1,360,312
—, benzoyl chloride from carbonyl chloride and, 1,360,312
—, 3-benzoyl-4.5-diketo-1-*o*-methoxyphenyl-2-phenyl-pyrrolidine made with, 1,148,637
—, benzoyl-ecgonine made with, 1,218,536
—, benzyl acetylsalicylate solvent, 1,436,304
—, benzyl alcohol made with, 1,416,859
—, benzyl cellulose solvent contg., 1,454,960
—, benzyl ethyl cellulose solvent contg., 1,454,960
—, *p*-benzylphenyl carbamate made with, 1,252,452
Benzene, binary mixture of *iso*-propyl alcohol and, 1,422,583
—, binder made with, 1,189,549; 1,209,333; 1,233,415; 1,233,416; 1,431,455
—, *N.N*-bis(*p*-allyloxy-phenyl)-acetamidine made with, 1,384,637
—, bismuth acetyl-salicylate made with, 1,217,862
—, bitumen solvent, 1,334,061
—, bituminous emulsion made with, 1,517,075
—, bituminous material made with, 1,506,371
—, bituminous material, minerals, recovery from of, using, 1,520,752
—, —, sand, recovery from of, using, 1,520,752
—, blood, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, bone black made with, 1,518,289
—, bookbinding gum contg., 1,389,574
—, *borated, see Borated benzene*
—, boron trioxide solvent, 1,181,800
—, brake lining impregnated with, 1,354,996
—, brake lining made with, 1,277,108; 1,414,378; 1,426,842; 1,429,267; 1,519,322
—, brass powder, protecting coatings of using, 1,181,889
—, brick made with, 1,220,401; 1,450,140
—, brom-ethylene made with, 1,425,130
—, brominated, fire extinguisher made with, 1,154,161
—, bromination of, apparatus for, 1,191,916
—, —, bromine for, 1,191,916
—, —, process for, 1,191,916
—, (*a*-brom-*iso*-valeryl)-pseudourea-methyl ether solvent, 1,126,432
—, 1-brom-*N*-methyl-2-naphthylamine made with, 1,431,470
—, bronze powder, protecting coatings of using, 1,181,889
—, bronze powder varnish made with, 1,157,768
—, bronzing liquid made with, 1,488,608
—, building material made with, 1,220,401; 1,353,619; Re-15,949
—, 1.3-butadiene made with, 1,436,819
—, buttons made with, 1,209,333
—, butylene chlorhydrin mfr. affected by, 1,295,339
—, butylene chloride mfr. affected by, 1,295,339
—, caffein, coffee, removal from of, using, 1,502,222
—, caffein solvent, 1,414,096; 1,434,297
—, caffeol extracted with, 1,292,458
—, calcium acetyl-salicylate made with, 1,217,862
—, calcium benzene disulfonate made with, 1,314,138
—, calcium chloride dried by hydrogen chloride dissolved in, 1,354,279
—, calf hide, waterproofing of using, 1,150,047
—, camphor made with, 1,225,052
—, camphor solvent, 1,474,830
—, can, lacquer for, made with, 1,148,168
—, can sealing composition contg., 1,323,752; 1,341,489
—, caoutchouc, synthetic, made with, 1,146,253; 1,185,654
—, —, vulcanization of, using, 1,487,880
—, carbohydrogen (?) made with, 1,230,226

Benzene, carbon made with, 1,155,419
—, carbon, decolorizing, made with, 1,478,986
—, carbon bisulfide as impurity in, 1,253,048
—, carbon bisulfide in, removal of from, 1,276,284
—, carbon from coal by action of, 1,420,164; 1,420,165
—, carbon monoxide solubility in, 1,438,581
—, carbon monoxide solvent, 1,438,581
—, carbon remover contg., 1,307,562; 1,494,678; 1,511,152
—, cardboard, composite, made with, 1,354,154
—, —, sized, waterproofing of using, 1,499,025
—, —, unsized, water-proofing of using, 1,499,025
—, —, water-proofing of using, 1,499,025
—, carragheen moss colloidal, made with, 1,392,849
—, cartridge, paper, water-proofing of using, 1,180,704
—, casein, colloidal, made with, 1,392,849
—, —, treatment of, using, 1,209,539
—, casein as emulsifier of, 1,440,356
—, casein product made with, 1,375,624
—, castor oil, sulfonated, made with, 1,374,607
—, catalyst aluminum chloride as, recovery of using, 1,202,081
—, —, benzine made with, 1,325,299
—, —, hydrogenation, made with, 1,251,202; 1,519,088
—, —, nickel as, made with, 1,251,202; 1,296,496; 1,329,322; 1,519,088
—, cattle food made with, 1,147,768
—, celluloid made with, 1,370,853
—, celluloid, decorating of using, 1,235,037
—, celluloid prepared with, 1,467,749
—, celluloid solvent contg., 1,195,431; 1,366,256; 1,425,510
—, celluloid substitute made with, 1,160,063; 1,181,858; 1,185,074; 1,188,797; 1,191,801; 1,217,027; 1,234,381; 1,363,763; 1,440,006; 1,488,294; 1,501,206; 1,508,928; 1,510,779; 1,512,751
—, cellulose, colloidal, made with, 1,458,542
—, —, water-proofing of using, 1,499,025
—, cellulose acetate made with, 1,236,578; 1,236,579; 1,265,216; 1,338,661; 1,466,329
—, cellulose acetate, colloidal, made with, 1,392,849
—, —, gelatin, separation from of, using, 1,196,799
—, —, glue, separation from of, using, 1,196,799
—, —, hydrated solvent, 1,316,311
—, —, plastic prepared with, 1,466,819
—, —, precipitated with, 1,456,781
—, —, precipitated from solution using, 1,175,791
—, —, solutions contg., 1,357,447
—, —, solvent contg., 1,152,625; 1,156,894; 1,160,979; 1,188,797; 1,195,673; 1,196,799; 1,199,395; 1,217,722; 1,226,339; 1,226,341; 1,265,216; 1,286,172; 1,298,199; 1,303,563; 1,310,841; 1,316,311; 1,363,763; 1,394,890; 1,406,224; 1,425,580; 1,434,634; 1,440,006; 1,454,959; 1,454,960; 1,454,961; 1,480,016; 1,488,294; 1,488,608; 1,501,206; 1,508,928
—, —, solvent with, diethyl phthalate, 1,449,156
—, —, solvent with ethyl acetoacetate, 1,449,156
—, —, solvent with ethyl succinate, 1,449,156
Benzene, cellulose, solvent with triacetin, 1,449,156
—, —, used in, 1,338,661
—, cellulose aceto-nitrate made with, 1,168,164
—, cellulose aceto-nitrate solvent contg., 1,454,961
—, cellulose butyrate made with, 1,474,574
—, cellulose butyrate solvent, 1,425,580; 1,425,581
—, cellulose dispersed in, 1,458,542
—, cellulose esters made with, 1,458,542
—, cellulose ester, colloidal, made with, 1,392,849
—, cellulose esters dispersed with, 1,392,849
—, cellulose ester solvent contg., 1,316,311; 1,370,853; 1,397,986; 1,400,196; 1,454,959; 1,454,960; 1,454,961
—, cellulose ether made with, 1,188,376; 1,405,490; 1,501,207
—, cellulose ether film prevented from curling by, 1,429,179
—, cellulose ether plasticizer, 1,357,614
—, cellulose ether solvent, 1,217,027; 1,217,028; 1,357,614; 1,405,449; 1,405,491; 1,427,690; 1,429,179; 1,434,432; 1,454,959; 1,454,960; 1,454,961; 1,469,816; 1,505,043; 1,505,044; 1,518,417
—, cellulose formate, colloidal, made with, 1,392,849
—, cellulose formate solvent, 1,316,311; 1,488,608
—, cellulose hydrate, water-proofing of using, 1,499,025
—, cellulose nitrate, colloidal, made with, 1,392,849
—, —, diphenylamine, removal of from, using, 1,439,656
—, —, coating made fireproof, formula using, 1,309,581
—, —, dissolved by ethyl acetate and, 1,350,271
—, —, dope ingredient, 1,436,231
—, —, explosive mfr. with, 1,392,851
—, —, gelatinized by, 1,147,850
—, —, lacquer contg., 1,355,078
—, —, powder coated with 2, 4-dinitrotoluene and, 1,313,459
—, —, powder coated with nitrohydrocarbon and, 1,313,459
—, —, powder coated with dinitrotoluene and, 1,313,459
—, —, solution contg., 1,350,281
—, —, solvent contg., 1,129,770; 1,135,026; 1,152,625; 1,160,979; 1,195,673; 1,204,709; 1,234,921; 1,253,956; 1,266,073; 1,269,339; 1,301,187; 1,309,581; 1,316,311; 1,321,611; 1,321,633; 1,321,634; 1,322,786; 1,329,386; 1,355,976; 1,356,440; 1,360,763; 1,370,853; 1,394,890; 1,398,239; 1,400,196; 1,411,669; 1,427,754; 1,437,170; 1,439,293; 1,441,332; 1,454,961; 1,480,016; 1,496,500; 1,503,453; 1,517,892
—, —, solvent with diethyl phthalate, 1,449,156
—, —, solvent with ethyl acetoacetate, 1,449,156
—, —, solvent with ethyl succinate, 1,449,156
—, —, solvent with triacetin, 1,449,156
—, cellulose solvent contg., 1,395,905
—, cellulose xanthate made with, 1,251,237

Benzene, cement made with, 1,216,265; 1,216,266; 1,354,154; 1,408,325
—, cement, paint for, made with, 1,179,413; 1,189,550
—, ceresin made with, 1,178,532
—, ceresin solvent, 1,178,532; 1,277,904
—, cerium acetyl-salicylate made with, 1,217,862
—, charcoal, artificial, made with, 1,478,986
—, chlorbenzene made with, 1,180,964; 1,189,736; 1,213,142; 1,468,220
—, chlor-compounds of, phenol aldehyde condensate made with, 1,143,714
—, chlor-dinitro-benzene made with, 1,220,078
—, chlor-ethylene made with, 1,425,130
—, chlorhydrins made with, 1,498,781; 1,498,782
—, chlorhydrins dehydrated with, 1,446,874
—, chlorhydrins prepared with, 1,446,873
—, chlorhydrin solvent, 1,394,664
—, chlorinated, di-chloramine T dissolved by, use of, 1,451,857
—, —, fire extinguisher made with, 1,154,161
—, —, tung oil product diluent, 1,463,883
—, chlorinated compound made with, 1,425,882; 1,425,883; 1,425,884
—, chlorination of, apparatus for, 1,191,916; 1,308,760
—, —, chlorine for, 1,191,916; 1,308,760
—, —, mercury vapor quartz lamp for, 1,308,760
—, —, process for, 1,191,916; 1,242,208; 1,308,760
—, —, ultra-violet ray for, 1,191,916
—, chlorinating in presence of, 1,326,973
—, chlorine, recovery of using, 1,468,220
—, chlorine-proofing made with, 1,234,381
—, 1-chlor-4-nitro-benzene solvent, 1,515,364
—, cholesterol solvent, 1,284,724
—, cholic formaldehyde condensate solvent, 1,213,261
—, chyrsarobin solvent, 1,417,771
—, cinchonine-*C*-*C*-diallylbarbituric acid made with, 1,261,235
—, cinchoninonitrile solvent, 1,145,487
—, clarification of, fuller's earth for, 1,297,635
—, clay, clarifying, revivifying of, using, 1,488,805
—, —, decolorizing, revivifying of, using, 1,488,805
—, clay as emulsifier of, 1,440,356
—, cleaner made with, 1,165,027; 1,201,181; 1,473,620; 1,484,167; 1,510,948; 1,516,064
—, cloth stain contg., 1,412,014
—, clutch facing made with, 1,270,559; 1,426,842; 1,519,322
—, coal gas, determination in of, apparatus for, 1,163,654
—, —, —, picric acid for, 1,163,654
—, —, —, process for, 1,163,654
—, coal gas recovery from of, 1,310,748
—, coal tar, treatment of using, 1,148,011
—, coal tar oil made with, 1,148,011
—, coal tar pitch made with, 1,148,011
—, coating made with, 1,308,575
—, coating for material contg., 1,304,071
—, coating composition made with, 1,179,413; 1,189,549; 1,189,550; 1,189,551; 1,196,276; 1,204,697; 1,358,304; 1,360,763
—, coating composition contg., 1,393,832; 1,400,041; 1,405,941
Benzene, coating composition for artificial leather contg., 1,412,770
—, coating mixture contg., 1,358,304
—, cocaine made with, 1,218,536
—, cocoa, cocoa butter, extraction of from, using, 1,487,449
—, cocoa butter made with, 1,494,090
—, cocoa butter, cocoa, extraction from of, using, 1,487,449
—, cocoa extract made with, 1,218,536; 1,235,450
—, cocoanut oil, sulfonated, made with, 1,374,607
—, coffee, caffein, removal of from, using, 1,502,222
—, coffee extract made with, 1,175,490
—, coke, by-product, 1,255,593
—, coke oven gas, determination in of, apparatus for, 1,163,654
—, —, —, picric acid for, 1,163,654
—, —, —, process for, 1,163,654
—, collodion membranes treated with, 1,350,532
—, colloidal fuel contg., 1,444,723
—, colophony solvent, 1,316,842
—, color lake insoluble in, 1,434,619
—, compound, $C_{14}H_{11}O_6PNa_2$, made with, 1,125,081
—, —, $C_{23}H_{15}O_4N$, made with, 1,203,500
—, concrete, coating composition for, made with, 1,189,550; 1,189,551; 1,400,041
—, —, paint for, made with, 1,179,413
—, —, water-proofing of with, 1,262,344
—, concrete coating contg., 1,400,041
—, concrete floor, treatment of, using, 1,246,827
—, concrete surfaced using, 1,515,121
—, condenser for, 1,336,360
—, container made with, 1,146,787; 1,355,976
—, container for, coating, algae extract for, 1,456,494
—, —, —, Irish moss extract for, 1,456,494
—, —, fiber board, made with, 1,512,729
—, —, food, made with, 1,206,379
—, copal, hydrogenation of using, 1,249,050
—, copper gaskets, sealing of using, 1,341,952
—, copper powder, protecting coatings of using, 1,181,889
—, cork, water-proofing of using, 1,499,025
—, cork flooring, laying of, adhesive for, made with, 1,515,439
—, corn oil, sulfonated, made with, 1,374,607
—, corn seed, treatment of using, 1,218,850
—, cotton, water-proofing of using, 1,499,025
—, cotton drill, coating of, made with, 1,468,818
—, cotton fabric, relief design on, made with, 1,492,580
—, cotton seed, treatment of using, 1,218,850
—, cotton seed oil, extraction of, using, 1,504,588
—, —, —, solvent for, as, 1,224,485
—, —, sulfonated, made with, 1,374,607
—, cotton treated with, 1,398,378
—, coumarone resin solvent, 1,157,768; 1,332,860
—, cracking process producing, 1,369,787; 1,369,788
—, cresol solvent, 1,445,668
—, *p*-cresyl ethyl alcohol made with, 1,315,619
—, cresyl phosphates made with, 1,425,393
—, crucible made with, 1,450,140
—, crude, distilling process for, 1,348,606

Benzene, crude, purification of, ammonium hydroxide for, 1,276,284
—, —, —, process for, 1,276,284
—, crude products, recovery of from, 1,348,606
—, crystallization of, preventing, ethyl acetate for, 1,420,007
—, cut-out, electric, made with, 1,198,962
—, cutting oil made with, 1,425,882; 1,425,883; 1,425,884
—, cutting torch gas made with, 1,505,338; 1,505,339
—, cyclohexane from, process for, 1,308,777
—, dammar, hydrogenation of using, 1,249,050
—, dammar solvent, 1,228,680; 1,410,012; 1,425,530; 1,463,780
—, deep-sea fiber, spinning of using, 1,232,374
—, deflocculated, rubber composition made with, 1,482,340
—, degras, sulfonated, made with, 1,374,607
—, dehydration of pyridine by, 1,290,124
—, determination of, apparatus for, 1,176,199
—, —, process for, 1,176,199
—, detonator made with, 1,511,771
—, dextrin, colloidal, made with, 1,392,849
—, —, water-proofing of using, 1,499,025
—, dextrin as emulsifier of, 1,440,356
—, dialkylamino alkyl compounds prepared with, 1,429,922
—, "diamino-dihydroxy-arsenobenzene-silver" made with, 1,127,603
—, diaphragm, porous made with, 1,474,830
—, diazodinitrophenol solvent, 1,428,011
—, 2-di-sec-butylamino-ethyl benzoate made with, 1,513,730
—, dichlorbenzene made with, 1,468,220
—, *p*-dichlorbenzene solvent, 1,346,337
—, didymium acetyl-salicylate made with, 1,217,862
—, die, metallic, made with, 1,157 493
—, die plate made with, 1,376,365
—, *N*-diethyl-aminoethyl *m*-aminoanisate solvent, 1,317,250
—, *N*-diethyl-aminoethyl *o*-amino-*p*-toluate solvent, 1,317,251
—, *N*-diethyl-aminoethyl *p*-amino-*o*-toluate solvent, 1,317,251
—, 1-diethylaminoethyl-theobromine hydrochloride made with, 1,414,333
—, diethylaminoethyltheobromine prepared with, 1,414,333
—, 3-diethylamino-1-propyl cinnamate made with, 1,193,649
—, 3-diethylamino-1-propyl *p*-toluate made with, 1,193,649; 1,193 651
—, *N*-dihydro-1.2.2′.1′-anthraquinoneazine, chlorine derivative made with, 1,317,160
—, 3-dimethylaminomethyl-6-methyl-3-heptanyl benzoate made with, 1,150,253
—, 3-dimethylaminomethyl-6-methyl-3-heptanyl benzoate hydrochloride made with, 1,150,253
—, (dimethylaminomethyl) (2-phenyl-4-quinolyl) ketone made with, 1,434,306
—, *p*-dimethylamino-phenol made with, 1,144,141
—, *p*-*N*-dimethylamino-thiocarbanilide made with, 1,477,803; 1,477,804
Benzene, 6.8-dimethyl-atophan, ethyl ester of, made with, 1,501,275
—, *N.N′*-dimethyl-carbanilide made with, 1,437,027
—, 5.5′-dimethyldibromindigo, reaction with, 1,412,038
—, *a.b*-dimethyl-*g*-dimethylamino-propyl *p*-nitrobenzoate made with, 1,474,567
—, dimethyldiphenyl urea made with, 1,437,027; 1,477,087
—, *N.N*-dimethyl-*p*-toluidine made with, 1,431,470
—, dinitro-phenol made with, 1,220,078; 1,380,185; 1,380,186
—, 2.4-dinitrophenol made with, 1,320,076; 1,320,077
—, dinitro-phenyl acetate made with, 1,198,040
—, dinitro-phenyl acetate solvent, 1,198,040
—, dinitro-phenyl benzoate made with, 1,198,040
—, dinitro-phenyl benzoate solvent, 1,198,040
—, dinitro-phenyl formate solvent, 1,198,040
—, dinitrotoluene solvent, 1,313,459
—, 2.4-dinitrotoluene solvent, 1,313,459
—, diphenyl made with, 1,322,983
—, diphenylamine, cellulose nitrate, removal from of, using, 1,439,656
—, —, powder, smokeless, removal from of, using, 1,439,656
—, diphenylamine solvent, 1,439,656
—, disinfectant made with, 1,280,602; Re-14,562; 1,458,542
—, disinfectant contg., carbon bisulfide and, 1,366,293
—, dispersing substances in, 1,392,849
—, distillation of, apparatus for, 1,250,760
—, —, continuous still for, 1,319,319
—, —, fractional, of, apparatus for, 1,141,266
—, —, —, —, process for, 1,141,266
—, distilling, process for, 1,453,215
—, dope made with, 1,347,801; 1,501,206; 1,508,928
—, drugs, extraction of, using, 1,504,588
—, dry-cleaning agent, 1,426,053
—, duster, dustless, made with, 1,344,545
—, dustless duster impregnated with crude, 1,344,545
—, dye made with, 1,148,011; 1,317,160
—, dye recovered from solution with, 1,297,046
—, dyestuff made with, 1,243,170; 1,243,171; 1,283,296; 1,350,600; 1,403,888; 1,466,687; 1,478,039; 1,492,094; 1,513,074
—, dyestuff, colloidal, made with, 1,458,542
—, dyestuff mfr. in suspension in, 1,466,687
—, ecgonine made with, 1,218,536
—, egg, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, elemi, hydrogenation of using, 1,249,050
—, emulsions contg., 1,410,012; 1,429,430
—, emulsified composition made with, 1,469,563
—, emulsifying of, process for, 1,440,356
—, emulsions of, destroying of, apparatus for, 1,501,877
—, —, —, diatomaceous earth for, 1,501,877
—, —, —, infusorial earth for, 1,501,877
—, —, —, kieselguhr for, 1,501,877
—, —, —, process for, 1,501,877

Benzene, emulsions of, mfr. of, castor oil for, 1,229,681
—, —, —, castor oil, alkali compounds of, for, 1,229,681
—, —, —, cresols for, 1,229,681
—, —, —, naphthols for, 1,229,681
—, —, —, phenol for, 1,229,681
—, —, —, process for, 1,229,681
—, —, —, soap, castor oil, for, 1,229,681
—, —, —, sodium hydroxide for 1,229,681
—, enamel made with, 1,205,545; 1,216,265; 1,216,266; 1,242,161; 1,458,542
—, enamel, baked, remover, made with, 1,204,851
—, —, undercoating composition for, made with, 1,425,510
—, enamel remover made with, 1,381,485; 1,495,547; 1,516,064
—, envelope, adhesive for, made with, 1,198,099
—, epilepsy, compound for treatment of, made with, 1,205,138
—, ergotamine salts crystallized from, 1,435,187
—, ergot treated with, 1,394,233
—, ether, mixture of, 1,314,138
—, ethyl, explosive of nitro-nitrate of, 1,370,067
—, ethyl alcohol, absolute, made with, 1,487,182; 1,490,520; 1,508,435
—, —, denatured, made using, 1,176,150
—, ethyl alcohol separated from, process for, 1,312,452
—, ethyl benzoate made with, 1,421,605
—, ethyl butyrate made with, 1,421,605
—, 9-ethyl-carbazole made with, 1,494,879
—, ethyl cellulose made with, 1,188,376
—, ethyl cellulose solution contg., 1,411,677
—, ethyl cellulose solvent, 1,188,376; 1,217,027; 1,217,028; 1,395,905; 1,405,448; 1,405,449; 1,405,490; 1,405,491; 1,411,677; 1,427,690; 1,429,179; 1,434,432; 1,441,181; 1,454,959; 1,454,960; 1,454,961; 1,458,256; 1,469,816; 1,505,043; 1,505,044; 1,518,417
—, ethyl chloroacetate made with, 1,421,604
—, ethyl *p*-(*b*-chlorethylamino)-benzoate made with, 1,334,641
—, ethyl citrate made with, 1,421,604
—, ethyl-*a*-(diethylaminoethyl)acetoacetate made with, 1,429,922
—, ethylene chlorhydrin dehydrated by, 1,386,118
—, ethylene chlorhydrin mfr. affected by, 1,295,339
—, ethylene chloride mfr. affected by, 1,295,339
—, ethyl hydrogen sulfate mfr. with, 1,421,605
—, ethylidine diacetate made with, 1,351,990
—, ethylidine diacetate extracted from acetic acid solution with, 1,351,990
—, ethyl isovalerate made with, 1,421,605
—, ethyl lactate made with, 1,421,604
—, ethyl malate made with, 1,421,604
—, ethyl maleate made with, 1,421,604
—, ethyl methyl cellulose solvent contg., 1,454,959; 1,454,960
—, ethyl oxalate made with, 1,421,604
—, ethyl-*b*-oxyethyl-*p*-aminobenzoate dissolved by, 1,334,641
—, ethyl phenyl, cellulose solvent contg., 1,454,960
Benzene, ethyl propionate made with, 1,421,605
—, ethyl salicylate made with, 1,421,605
—, ethyl starch solvent, 1,350,820
—, ethyl succinate made with, 1,421,604
—, ethyl tartrate made with, 1,421,604
—, ethyl valerate made with, 1,421,605
—, ethyl *iso*-valerate made with, 1,421,605
—, explosive made with, 1,243,351
—, fabric, acid-proof, made with, 1,233,334
—, —, alkali-proof, made with, 1,233,334
—, —, bonding composition contg., 1,463,780
—, —, coated with solution contg., 1,322,786
—, —, coated, made with, 1,195,431; 1,234,921; 1,324,154; 1,360,763; 1,468,818
—, —, coating composition contg., 1,463,780
—, —, fireproofing of using, 1,388,827; 1,388,828
—, —, frictional, made with, 1,463,506
—, —, grease-proof, made with, 1,233,334
—, —, lubricated with oils by means of, 1,327,904
—, —, recovered from rubber fabric with, 1,321,200
—, —, relief design on, made with, 1,492,580
—, —, treating solution contg., 1,417,587
—, —, waterproof, made with, 1,233,334; 1,360,763
—, —, waterproofing of using, 1,388,827; 1,388,828; 1,499,025
—, fabrics scoured with, 1,435,864
—, factis made with, 1,159,258; 1,376,172
—, fat made with, 1,147,768; 1,147,770; 1,193,951
—, fat, emulsion of, made using, 1,230,599
—, —, extraction of, using, 1,504,588
—, —, —, solvent for, as, 1,224,485
—, fat extracted from casein by mixture of alcohol and, 1,375,624
—, fat extracted from garbage with, 1,372,479
—, fat solvent, 1,193,951; 1,464,557
—, fats treated while dissolved in, 1,408,804
—, felt, building, made with, 1,474,423
—, fiber, rubber coated, made with, 1,482,336
—, —, spinning of using, 1,232,374
—, fiber board box made with, 1,512,729
—, filament, artificial, made with, 1,156,969; 1,217,028
—, —, —, viscose, made with, 1,251,237
—, filler made with, 1,204,697
—, film made with, 1,199,395; 1,217,027; 1,347,801; 1,363,763; 1,400,196; 1,434,432; 1,440,006; 1,441,181; 1,480,016; 1,488,608; 1,501,206; 1,508,928
—, film, motion picture, made with, 1,411,677; 1,488,294
—, —, —, renovating of, using, 1,205,822
—, film, photographic, made with, 1,188,797; 1,226,339; 1,226,341; 1,240,344; 1,357,614; 1,395,905; 1,405,448; 1,405,449; 1,405,490; 1,429,179; 1,441,142; 1,441,181; 1,488,294; 1,500,393; 1,512,751; 1,518,417; 1,519,659
—, finish remover made with, 1,140,449; 1,145,365; 1,147,851; 1,147,852; 1,160,394; 1,167,462; 1,167,469; 1,167,640; 1,167,641; 1,172,773; 1,173,628; 1,185,641
—, fire-proofing composition contg., 1,310,841
—, fire-proofing process using, 1,388,827; 1,388,828
—, fireworks, made with, 1,204,709

Benzene, fish oil, extraction of, solvent for, as, 1,224,485
—, —, sulfonated, made with, 1,374,607
—, flax, water-proofing of using, 1,499,025
—, floor covering made with, 1,431,455; 1,482,336; 1,515,439
—, flooring made with, 1,491,265; 1,506,371
—, flotation with, 1,444,552
—, flotation process for, 1,497,699
—, flour, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, flour middlings, degreasing of, using, 1,490,430
—, fluor-ethylene made with, 1,425,130
—, food made with, 1,260,656
—, food can, lacquer for, made with, 1,148,168
—, food product, gelatinous, globular particles of, made with, 1,201,132; 1,201,133
—, formaldehyde made with, 1,318,631; 1,318,632; 1,318,633
—, formation of, asphalt for, cracking process for, 1,313,009
—, —, coal destructive distillation of, for, 1,317,359
—, —, gum for, cracking process for, 1,313,009
—, —, hydrocarbon for, cracking process for, 1,313,009
—, —, oil for, cracking process for, 1,313,009
—, —, paraffin for, cracking process for, 1,313,009
—, —, petroleum for, cracking process for, 1,313,009
—, —, pitch for, cracking process for, 1,313,009
—, —, resin for, cracking process for, 1,313,009
—, —, tar for, cracking process for, 1,313,009
—, formation in coke ovens, 1,422,706
—, friction fabric made with, 1,429,267; 1,519,322
—, friction facing made with, 1,498,386
—, friction facings impregnated with, 1,426,842
—, fruit, desiccated, extracted with, 1,393,660
—, fuel, gaseous, made with, 1,230,226; 1,504,557; 1,505,338; 1,505,339
—, —, liquid, contg., 1,239,100; 1,271,114; 1,271,115; 1,420,007; 1,460,767; 1,469,053; 1,471,566; 1,471,916; 1,474,982; 1,474,983; 1,491,275
—, —, —, made with, 1,131,880; 1,360,872; 1,439,976; 1,475,259; 1,480,368; 1,489,763; 1,491,998; 1,494,613; 1,496,810; 1,504,837; 1,516,757; 1,519,905
—, fumaric acid made with, 1,318,631; 1,318,632; 1,318,633
—, fumigator contg. carbon bisulfide and, 1,366,293
—, furfural resin solvent, 1,441,598
—, garment, treatment of, using, 1,417,587
—, —, wear-proofing of, using, 1,417,587
—, gas, determination in of, apparatus for, 1,163,654
—, —, —, picric acid for, 1,163,654
—, —, —, process for, 1,163,654
—, gas contg., determination in of, apparatus for, 1,272,922
—, gasket made with, 1,519,803
—, gaskets, sealing of using, 1,341,952
—, gasolene substitute contg., kerosene and, 1,296,832
Benzene, gasolene treated with, 1,365,046
—, gear made with, 1,370,666
—, gelatin, blood, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, cellulose acetate, separation of from, using, 1,196,799
—, —, colloidal, made with, 1,392,849
—, —, egg, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, finely divided, made with, 1,195,099
—, —, flour, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, globular particles of, made with, 1,201,132; 1,201,133
—, —, medicine, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, milk, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, salts, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, sugar, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, gelatin as emulsifier of, 1,440,356
—, gelatin substitute made with, 1,217,027
—, gilsonite distillate solvent, 1,438,590
—, glass, ground, substitute for, made with, 1,257,783
—, glove, acid resistant, made with, 1,500,097
—, glue made with, 1,209,333
—, glue, animal, globular particles of, made with, 1,201,132; 1,201,133
—, —, cellulose acetate, separation of from, using, 1,196,799
—, —, colloidal, made with, 1,392,849
—, —, finely divided, made with, 1,195,099
—, glue as emulsifier of, 1,440,356
—, glue incorporated with rubber by, 1,399,789
—, glycerol made with, 1,147,768; 1,147,770; 1,193,951
—, glycerol emulsified in, mfr. of, dammar for, 1,410,012
—, —, —, process for, 1,410,012
—, glycerol solvent contg., 1,193,951
—, glyceryl butyrate made with, 1,421,605
—, glyceryl chloracetate made with, 1,421,604
—, glyceryl hydrogen sulfate made with, 1,421,605
—, glyceryl lactate made with, 1,421,604
—, glyceryl malate made with, 1,421,604
—, glyceryl maleate made with, 1,421,604
—, glyceryl oxalate made with, 1,421,604
—, glyceryl propionate made with, 1,421,605
—, glyceryl salicylate made with, 1,421,605
—, glyceryl succinate made with, 1,421,604
—, glyceryl tartrate made with, 1,421,604
—, glyceryl valerate made with, 1,421,605
—, glyceryl *iso*-valerate made with, 1,421,605
—, glycols made with, 1,498,781; 1,498,782
—, glycol benzoate made with, 1,421,605
—, glycol butyrate made with, 1,421,605
—, glycol chloroacetate made with, 1,421,604
—, glycol citrate made with, 1,421,604
—, glycol hydrogen sulfate made with, 1,421,605
—, glycol lactate made with, 1,421,604
—, glycol malate made with, 1,421,604
—, glycol maleate made with, 1,421,604
—, glycol oxalate made with, 1,421,604

Benzene glycol propionate made with, 1,421,605
—, glycol salicylate made with, 1,421,605
—, glycol succinate made with, 1,421,604
—, glycol tartrate made with, 1,421,604
—, glycol valerate made with, 1,421,605
—, glycol *iso*-valerate made with, 1,421,605
—, goat hide, water-proofing of using, 1,150,047
—, gold leaf, artificial, made with, 1,253,956
—, —, imitation, made with, 1,160,979
—, golf ball made using, 1,251,029
—, grease made with, 1,425,882; 1,425,883; 1,425,884
—, grease, animal, sulfonated, made with, 1,374,607
—, —, extraction of, solvent for, as, 1,224,485
—, —, paper container for, made with, 1,324,849
—, —, vegetable, sulfonated, made with, 1,374,607
—, grease removed from magnalium made with, 1,292,582
—, grease remover made with, 1,516,064
—, gum, colloidal, made with, 1,392,849
—, gums as emulsifier of, 1,440,356
—, gutta percha latex, chlorination of, using, 1,491,265
—, —, solvent, 1,180,704; 1,204,697; 1,312,452
—, —, vulcanizer with, 1,463,794
—, half tone, color, made with, 1,264,004
—, hair, artificial, made with, 1,217,028
—, halogenated homologues of, preparing, 1,345,373
—, halogenation of, lamp, mercury vapor, for, 1,198,356
—, halogen derivatives of, mfr. of, process for, 1,306,472
—, heater, electric, made with, 1,181,800
—, hemicelluloses as emulsifier of, 1,440,356
—, hemoglobin, colloidal, made with 1,392,849
—, hemp, water-proofing of using, 1,499,025
—, "heptachlor-caoutchouc" made with, 1,234,381
—, —, solvent, 1,234,381
—, heptane separated from by selenium oxychloride, 1,385,081
—, hexamethylbenzene made with, 1,134,956
—, horsehair, artificial, made with, 1,347,801
—, hydrocarbon made using, 1,244,840
—, hydrocarbon, aromatic, sulfonation of, using, 1,247,499
—, —, diolefin, made with, 1,436,819
—, —, naphthene, separation of from, ammonium bicarbonate for, 1,520,953
—, —, —, —, ammonium carbonate for, 1,520,953
—, —, —, —, ammonium hydroxide for, 1,520,953
—, —, —, —, naphthenates for, 1,520,953
—, —, —, —, potassium bicarbonate for, 1,520,953
—, —, —, —, potassium carbonate for, 1,520,953
—, —, —, —, potassium hydroxide for, 1,520,953
—, —, —, —, process for, 1,520,953
—, —, —, —, sludge sulfonates for, 1,520,953
—, —, —, —, soap for, 1,520,953
Benzene, hydrocarbon, naphthene, separation of from, soap, ammonium, for, 1,520,953
—, —, —, —, —, laundry, for, 1,520,953
—, —, —, —, —, naphthenic for, 1,520,953
—, —, —, —, —, potassium, for, 1,520,953
—, —, —, —, —, sludge sulfonic acid for, 1,520,953
—, —, —, —, —, sodium, for, 1,520,953
—, —, —, —, —, sulfonic acid for, 1,520,953
—, —, —, —, sodium bicarbonate for, 1,520,953
—, —, —, —, sodium carbonate for, 1,520,953
—, —, —, —, sodium hydroxide for, 1,520,953
—, —, —, —, sulfonates for, 1,520,953
—, —, paraffin, separation of from, ammonium bicarbonate for, 1,520,953
—, —, —, —, ammonium carbonate for, 1,520,953
—, —, —, —, ammonium hydroxide for, 1,520,953
—, —, —, —, naphthenates for, 1,520,953
—, —, —, —, potassium bicarbonate for, 1,520,953
—, —, —, —, potassium carbonate for, 1,520,953
—, —, —, —, potassium hydroxide for, 1,520,953
—, —, —, —, process for, 1,520,953
—, —, —, —, sludge sulfonates for, 1,520,953
—, —, —, —, soap for, 1,520,953
—, —, —, —, —, ammonium, for, 1,520,953
—, —, —, —, —, laundry, for, 1,520,953
—, —, —, —, —, naphthenic, for, 1,520,953
—, —, —, —, —, potassium, for, 1,520,953
—, —, —, —, —, sludge sulfonic acid for, 1,520,953
—, —, —, —, —, sodium, for, 1,520,953
—, —, —, —, —, sulfonic, for, 1,520,953
—, —, —, —, sodium bicarbonate for, 1,520,953
—, —, —, —, sodium carbonate for, 1,520,953
—, —, —, —, sodium hydroxide for, 1,520,953
—, —, —, —, sulfonates for, 1,520,953
—, —, saturated, separation of from, ammonium bicarbonate for, 1,520,953
—, —, —, —, ammonium carbonate for, 1,520,953
—, —, —, —, ammonium hydroxide for, 1,520,953
—, —, —, —, naphthenates for, 1,520,953
—, —, —, —, potassium bicarbonate for, 1,520,953
—, —, —, —, potassium carbonate for, 1,520,953
—, —, —, —, potassium hydroxide for, 1,520,953
—, —, —, —, process for, 1,520,953
—, —, —, —, sludge sulfonates for, 1,520,953
—, —, —, —, soap for, 1,520,953
—, —, —, —, soap, ammonium, for, 1,520,953
—, —, —, —, —, laundry for, 1,520,953
—, —, —, —, —, naphthenic, for, 1,520,953
—, —, —, —, —, potassium, for, 1,520,953
—, —, —, —, —, sludge sulfonic acid, for, 1,520,953
—, —, —, —, —, sodium, for, 1,520,953
—, —, —, —, —, sulfonic, for, 1,520,953
—, —, —, —, sodium bicarbonate for, 1,520,953
—, —, —, —, sodium carbonate for, 1,520,953
—, —, —, —, sodium hydroxide for, 1,520,953
—, —, —, —, sulfonates for, 1,520,953
—, hydrocarbon cracking product, 1,402,455
—, hydrocarbons for producing, 1,369,787; 1,369,788
—, hydrocellulose, waterproofing of using, 1,499,025
—, hydrochloric acid made with, 1,360,312

Benzene, hydrochloric acid, recovery of using, 1,468,220
—, hydrogen (compressed), made with, 1,438,581
—, hydrogenated compound made with, 1,425,882; 1,425,883; 1,425,884
—, hydrogenation, catalyst for, made with, 1,251,202; 1,519,088
—, hydrogenation of to cyclohexane, 1,439,976
—, hydrogen for conversion of toluene into, 1,365,849
—, hydrogen solubility in, 1,438,581
—, hydrogen solvent, 1,438,581
—, hydrogen sulfide solvent, 1,487,880
—, hydrogen sulfide in, removal of from, 1,276,284
—, hydrogen sulfide as impurity in, 1,253,048
—, hydroquinol from, 1,322,580
—, hydroxy-alkylamine made with, 1,498,781; 1,498,782
—, (*b*-(*b'*-hydroxy-ethoxy)-ethyl)-trimethyl-ammonium bromide made with, 1,518,689
—, illuminating gas recovery from of, 1,310,748
—, impure, sulfonation of, continuous, 1,459,081
—, indigo derivatives, reaction of with, 1,414,335
—, indigo halogenated in, 1,412,038
—, inflammability of solvent mixtures contg., 1,499,101
—, ink, lithographic, made with, 1,131,578
—, —, rotogravure containing, 1,447,734
—, insecticide contg., 1,456,509; 1,515,364
—, insecticide made with, 1,458,542
—, insecticide contg. carbon bisulfide and, 1,366,293
—, insulating varnish made with, 1,149,171
—, insulation, electric, made with, 1,131,578; 1,149,171; 1,159,257; 1,179,357; 1,181,800; 1,185,074; 1,194,201; 1,209,333; 1,216,265; 1,216,266; 1,233,415; 1,233,416; 1,234,381; 1,245,981; 1,246,810; 1,248,638; 1,286,370; 1,300,218; Re-15,199; 1,332,860; 1,370,666; 1,383,740; 1,398,143; 1,425,784; 1,427,911; 1,439,056
—, —, heat, made with, 1,185,074; 1,209,333; 1,489,567
—, iodo-ethylene made with, 1,425,130
—, iron, coating of using, 1,195,090
—, iron carburized with, 1,408,686
—, iron cleaning composition contg., 1,387,645
—, iron filings, coated, made with, 1,204,709
—, isinglass as emulsifier of, 1,440,356
—, isonitrosomethyl 2-phenyl-4-quinolyl ketone made with, 1,434,306
—, isoprene made with, 1,436,819
—, isoprene solvent, 1,146,253
—, jute, water-proofing of using, 1,499,025
—, kaolin as emulsifier of, 1,440,356
—, lacquer contg., 1,397,986; 1,411,035; 1,437,170
—, lacquer made with, 1,148,168; 1,185,514; 1,195,090; 1,195,673; 1,216,265; 1,216,266; 1,234,381; 1,245,981; 1,245,982; 1,347,801; 1,354,154; 1,411,035; 1,437,170; 1,480,016; 1,488,608
—, lacquer remover made with, 1,381,485
—, lactic acid made with, 1,147,768; 1,147,770; 1,193,951
—, lake, colloidal, made with, 1,458,542
Benzene, lard, paper container for, made with, 1,324,849
—, lard substitute, paper container for, made with, 1,324,849
—, lecithin solvent, 1,464,557
—, lens-protecting composition contg., 1,459,380
—, leprosy, substance for treatment of, made with, 1,250,345
—, lead alloy, alkali metal in, treatment of using, 1,197,329
—, —, potassium in, treatment of using, 1,197,329
—, —, sodium in, treatment of using, 1,197,329
—, lead carbonate prepared with, 1,467,749
—, lead dioxide prepared with, 1,467,749
—, lead sulfate prepared with, 1,467,749
—, leather made with, 1,200,146
—, leather, artificial, made with, 1,179,357; 1,234,381; 1,244,567; 1,269,339; 1,276,113; 1,350,281; 1,431,455; 1,496,500; 1,517,892
—, —, —, coated with solution contg., 1,322,786
—, —, —, made fireproof with, formula using, 1,309,581
—, —, —, viscose made with, 1,251,237
—, —, chrome, treatment of with, 1,173,988
—, —, finishing of, using, 1,234,494
—, —, imitation, contg., 1,291,180
—, —, patent, made with, 1,175,791; 1,437,170
—, —, water-proofing of using, 1,150,047
—, leather board made with, 1,469,563
—, leather, coating composition for, made with, 1,437,170
—, leather imitation made with, 1,436,106; 1,436,107
—, leather preservative contg., 1,390,537
—, leather rubberizing solution contg., 1,425,530
—, leather substitute made with, 1,175,791; 1,482,336
—, lighter wick impregnating agent, 1,430,543
—, light oil contg., 1,246,671; 1,317,359
—, light oil constituent, 1,409,588
—, linen, water-proofing of using, 1,499,025
—, linen fabric, relief design on, made with, 1,492,580
—, linoleum, laying of, adhesive for, made with, 1,515,439
—, linseed oil, extraction of, solvent for, as, 1,244,485
—, —, sulfonated, made with, 1,374,607
—, liquids cooled with, 1,435,142
—, liquid air explosive contg., 1,440,041
—, lithium acetyl-salicylate made with, 1,217,862
—, lithographic ink contg., 1,406,837
—, lithopone, colloidal, made with, 1,458,542
—, lubricant made with, 1,395,902
—, lumber, artificial, made with, 1,353,619; Re-15,949
—, machine oil, emulsion of, made using, 1,230,599
—, magnesium acetyl-salicylate made with, 1,217,862
—, maleic acid made with, 1,318,631; 1,318,632; 1,318,633; 1,374,720; 1,401,937; 1,424,138; 1,515,299
—, maleic acid distilled using, 1,424,138
—, manganese(ous) chloride made with, 1,468,220

Benzene, mfr. of, 1,239,099; 1,422,496; 1,428,311; 1,428,312
—, —, acid tar for, 1,373,391
—, —, air for, 1,516,756
—, —, alcohols for, 1,282,906
—, —, alkali for, 1,252,481
—, —, aluminum apparatus for, 1,282,906
—, —, aluminum oxide as catalyst for, 1,330,844
—, —, amines for, 1,282,906
—, —, amyl alcohol for, 1,282,906
—, —, apparatus for, 1,177,727; 1,194,289; 1,214,204; 1,224,787; 1,224,788; 1,249,444; 1,252,481; 1,257,906; 1,269,439; 1,282,906; 1,296,367; 1,330,844; 1,373,391; 1,445,281
—, —, asphalt for, 1,224,788; 1,373,391
—, —, barium carbide for, 1,269,439
—, —, borax for, 1,255,593
—, —, brass apparatus for, 1,282,906
—, —, bromine for, 1,282,906
—, —, bronze apparatus for, 1,282,906
—, —, Burton still stock for, 1,516,756
—, —, calcium carbide for, 1,269,439
—, —, calcium carbonate for, 1,224,788
—, —, calcium chloride for, 1,255,593
—, —, calcium oxide for, 1,224,788
—, —, carbonaceous matter distilled for, 1,343,100
—, —, carbon dioxide for, 1,516,756
—, —, carbon monoxide for, 1,257,906; 1,282,906
—, —, catalyst for, mfr. of, air for, 1,214,204
—, —, —, —, brick, fire, for, 1,214,204
—, —, —, —, carbon monoxide for, 1,214,204
—, —, —, —, copper(ic) nitrate for, 1,214,204
—, —, —, —, copper(ous) oxide for, 1,214,204
—, —, —, —, iron(ic) nitrate for, 1,214,204
—, —, —, —, iron(ous) oxide for, 1,214,204
—, —, —, —, nickel(ous) nitrate for, 1,214,204
—, —, —, —, nickel oxide (Ni_2O), for, 1,214,204
—, —, —, —, petroleum for, 1,214,204
—, —, —, —, process for, 1,214,204
—, —, —, —, pumice for, 1,214,204
—, —, —, —, water for, 1,214,204
—, —, chlorine for, 1,282,906
—, —, coal for, 1,176,094; 1,176,150; 1,177,727; 1,255,593
—, —, coal, bituminous, for, 1,224,788
—, —, —, cannel, for, 1,224,788
—, —, —, destructive distillation of, for, 1,252,481
—, —, coal distillation by-product, 1,207,723; 1,207,724
—, —, coal gas for, 1,230,975
—, —, coal tar for, 1,224,788; 1,230,975; 1,339,310
—, —, coal tar distillate for, 1,246,671
—, —, coal tar oil for, 1,339,310
—, —, coal tar pitch for, 1,339,310
—, —, cobalt oxide for, 1,224,787
—, —, coke, by-product, for, 1,252,481
—, —, copper apparatus for, 1,282,906
—, —, copper as catalyst for, 1,257,906
—, —, copper oxide for, 1,224,787
—, —, cracking apparatus for, 1,194,289
—, —, cracking hydrocarbons, 1,330,844
—, —, cracking process for, 1,185,654; 1,269,439; 1,282,906; 1,373,391; 1,516,720; 1,516,756
—, —, —, apparatus for, 1,320,726; 1,320,727
—, —, crude oil for, 1,516,756
Benzene, mfr. of, fire brick as catalyst carrier for, 1,257,906
—, —, fuel oil for, 1,249,444
—, —, gas for, 1,252,481
—, —, gas oil for, 1,282,906; 1,516,756
—, —, glass for, 1,185,654
—, —, graphite as catalyst for, 1,330,844
—, —, halogen for, 1,282,906
—, —, hydrocarbon for, 1,194,289; 1,230,975; 1,249,444; 1,269,439
—, —, —, apparatus for, 1,312,265
—, —, hydrocarbon, carbocyclic for, 1,257,906
—, —, —, cyclohexane, for, 1,214,204
—, —, —, olefin, for, 1,224,787
—, —, —, paraffin, for, 1,224,787
—, —, iron apparatus for, 1,282,906
—, —, iron as catalyst for, 1,257,906
—, —, iron(ic) oxide for, 1,224,787
—, —, kerosene for, 1,516,720; 1,516,756
—, —, light oil for, 1,246,671
—, —, lignite for, 1,224,788; 1,403,633
—, —, mercury(ic) salt for, 1,282,906
—, —, metal, sherardized, for, 1,185,654
—, —, metal oxide for, 1,224,787
—, —, naphtha for, 1,269,439
—, —, naphtha, painter's for, 1,516,756
—, —, —, solvent, for, 1,230,975
—, —, —, varnish maker's, for, 1,516,756
—, —, naphthanes for, 1,257,906
—, —, 1.4-naphtholsulfonic acid with as solvent, 1,452,481
—, —, nickel as catalyst for, 1,257,906; 1,282,906
—, —, nickel oxide for, 1,224,787
—, —, nitrogen for, 1,282,906
—, —, oil for, 1,252,481
—, —, oils, cracked, for, 1,394,481; 1,411,255
—, —, —, crude, for, 1,282,906
—, —, —, lubricating, for, 1,282,906
—, —, oil shale for, 1,224,788
—, —, oxygen for, 1,257,906; 1,516,756
—, —, palladium as catalyst for, 1,282,906
—, —, paraffin for, 1,252,481; 1,282,906
—, —, paraffin oil for, 1,282,906
—, —, peat for, 1,445,423
—, —, petroleum for, 1,214,204; 1,249,444; 1,257,906; 1,282,906; 1,330,844; 1,419,123; 1,445,040; 1,516,756
—, —, petroleum, California, for, 1,194,289
—, —, —, Mexico, for, 1,194,289
—, —, —, Persia, for, 1,194,289
—, —, petroleum coke as catalyst carrier for, 1,282,906
—, —, petroleum distillate for, 1,249,444
—, —, petroleum oils for, 1,404,725
—, —, petroleum residuum for, 1,516,720
—, —, petroleum wax for, 1,282,906
—, —, pinene for, 1,185,654
—, —, pitch for, 1,373,391
—, —, porcelain for, 1,185,654
—, —, process for, 1,177,727; 1,185,654; 1,194,289; 1,214,204; 1,224,787; 1,224,788; 1,230,975; 1,246,671; 1,249,444; 1,252,481; 1,255,593; 1,257,906; 1,282,906; 1,330,844; 1,339,310; 1,373,391; 1,516,720; 1,516,756
—, —, producer gas for, 1,282,906
—, —, pumice as catalyst carrier for, 1,257,906; 1,516,756

Benzene, mfr. of, resins from residues from, 1,236,917
—, —, shale, bituminous, for, 1,224,788
—, —, sludge sulfonic acid for, 1,373,391
—, —, sodium hydroxide for, 1,246,671; 1,339,310
—, —, spindle oil for, 1,282,906
—, —, steel apparatus for, 1,282,906
—, —, still residue for, 1,282,906
—, —, straw oil for, 1,252,481
—, —, sulfur dioxide for, 1,282,906
—, —, sulfuric acid for, 1,246,671; 1,252,481; 1,282,906; 1,339,310
—, —, tar for, 1,373,391
—, —, terra cotta apparatus for, 1,282,906
—, —, turpentine for, 1,185,654
—, —, turpentine oil for, 1,282,906
—, —, vanadium oxide as catalyst for, 1,516,756
—, —, water gas for, 1,282,906
—, —, xylene and cymene for, 1,419,124
—, marking using, 1,374,329
—, marshmallow as emulsifier of, 1,440,356
—, mastic, hydrogenation of using, 1,249,050
—, mastic solvent, 1,425,530
—, match made with, 1,147,159
—, meal, colloidal, made with, 1,392,849
—, —, (from tin plate mfr.), degreasing of, using, 1,490,430
—, meat-extract treated with, 1,442,340
—, medicinal compound made with, 1,425,882; 1,425,883; 1,425,884
—, medicine, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, gelatinous, globular particles of, made with, 1,201,132; 1,201,133
—, mellitic acid made with, 1,134,956
—, metal, coating for, made with, 1,185,074; 1,195,090
—, metal cleaning composition contg., 1,387,645
—, metal cut with hydrogen and, 1,425,856
—, metal gaskets, sealing of using, 1,341,952
—, metal leaf made with, 1,160,979
—, metal leaf, artificial, made with, 1,253,956
—, —, protecting coatings of using, 1,181,889
—, metal powder, protecting coatings of using, 1,181,889
—, methane solubility in, 1,438,581
—, methoxybenzyl cellulose solvent contg., 1,454,960
—, *p*-methylamino-phenol made with, 1,431,470
—, methylamine solvent, 1,477,087
—, methyl anthranilate made with, 1,458,715
—, methylbenzyl cellulose solvent contg., 1,454,960
—, methyl cellulose solvent contg., 1,454,959; 1,454,960; 1,454,961; 1,505,044
—, methylethyl cellulose solvent, 1,454,959; 1,454,960
—, methyl 3-nitrosalicylate-5-sulfonyl chloride solvent, 1,125,124
— methyl 4-quinolyl ketone made with, 1,145,487
—, *N*-methyl-*p*-toluidine made with, 1,431,470
—, 4-methyl-2-trimethylacetoxy-benzoic acid made with, 1,338,297
—, *mono*-methyl xylenesulfonamide extracted with, 1,433,925
—, milk, artificial, made with, 1,297,668
Benzene, milk, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, minerals, bitumen, recovery of from using, 1,520,752
—, —, bituminous material recovery of from using, 1,520,752
—, —, petroleum, recovery of from using, 1,520,752
—, minerals collected with coal and, 1,421,862
—, molded article made with, 1,175,791; 1,185,074; 1,209,333; 1,216,265; 1,216,266; 1,220,401; 1,286,370; 1,300,218; Re-15,199; 1,354,154; 1,368,753; 1,370,666; 1,398,143; 1,425,784; 1,427,690; 1,439,056
—, molding composition contg., 1,300,218; Re-15,199
—, moleskin, coated, made with, 1,468,818
—, monochlorbenzene from, 1,299,171
—, Montan wax extracted with, 1,437,775
—, moths, compound for protection from made with, 1,480,289
—, motor fuel contg., 1,360,872; 1,361,153; 1,363,870; 1,378,858; 1,388,531; 1,398,947; 1,412,233; 1,414,759; 1,419,910; 1,420,007; 1,423,048; 1,423,049; 1,423,050; 1,423,058; 1,425,136; 1,428,885; 1,428,913; 1,460,767
—, motor fuel contg. alcohol and, 1,372,465
—, motor fuel ingredient, 1,399,227
—, motor spirit from, 1,439,976
—, mucilage made with, 1,198,099
—, muffles made with, 1,450,140
—, naphtha, emulsion of, made using, 1,230,599
—, —, petroleum, separation of from, ammonium bicarbonate for, 1,520,953
—, —, —, —, ammonium carbonate for, 1,520,953
—, —, —, —, ammonium hydroxide for, 1,520,953
—, —, —, —, naphthenates for, 1,520,953
—, —, —, —, potassium bicarbonate for, 1,520,953
—, —, —, —, potassium carbonate for, 1,520,953
—, —, —, —, potassium hydroxide for, 1,520,953
—, —, —, —, process for, 1,520,953
—, —, —, —, sludge sulfonates for, 1,520,953
—, —, —, —, soap for, 1,520,953
—, —, —, —, soap, ammonium, for, 1,520,953
—, —, —, —, —, laundry, for, 1,520,953
—, —, —, —, —, naphthenic, for, 1,520,953
—, —, —, —, —, potassium, for, 1,520,953
—, —, —, —, —, sludge sulfonic acid, for, 1,520,953
—, —, —, —, —, sodium, for, 1,520,953
—, —, —, —, —, sulfonic acid for, 1,520,953
—, —, —, —, sodium bicarbonate for, 1,520,953
—, —, —, —, sodium carbonate for, 1,520,953
—, —, —, —, sodium hydroxide for, 1,520,953
—, —, —, —, sulfonates for, 1,520,953
—, naphtha cracked to obtain, 1,409,893
—, naphthalene, sulfonation of, using, 1,247,499
—, naphthalene-sulfonic acid made with, 1,211,923
—, naphthalene-sulfonic acid, salts of, made with, 1,211,923
—, naphthalene-sulfonic acid solvent, 1,211,923

Benzene, 1.4-naphtholsulfonic acid solvent, 1,452,481
—, naphthylamine solvent, 1,471,916
—, nickel, catalyst, made with, 1,251,202; 1,329,322; 1,329,323; 1,519,088
—, nicotine made with, 1,123,522
—, nicotine solvent, 1,123,522
—, nitrated, dynamite, made with, 1,198,129
—, —, explosive made with, 1,198,129
—, —, mfr. of, calcium nitrate for, 1,198,129
—, —, —, potassium nitrate for, 1,198,129
—, —, —, process for, 1,198,129
—, —, —, sodium nitrate for, 1,198,129
—, —, —, sulfuric acid for, 1,198,129
—, —, —, sulfuric acid, fuming, for, 1,198,129
—, nitrated compound made with, 1,425,882; 1,425,883; 1,425,884
—, nitration of, apparatus for, 1,312,119
—, —, mercury as catalyst in, 1,380,185; 1,380,186
—, —, process for, 1,309,320
—, —, silver nitrate as catalyst in, 1,380,185; 1,380.186
—, —, sodium nitrate for, 1,309,320
—, —, sulfuric acid for, 1,309,320
—, nitration of to dinitrophenol, 1,380,185; 1,380,186
—, nitrobenzene made with, 1,320,076; 1,320,077
—, nitrobenzene removed from dibenzanthrene made with, 1,464,598
—, *o*-nitro-benzoic acid made with, 1,458,715
—, nitro-compounds of, phenol aldehyde condensate made with, 1,143,714
—, nitro compounds purified with, 1,309,559
—, 3-nitro-2.4-cresotic acid 5-sulfonyl chloride solvent, 1,125,124
—, nitrogen fixed by titanium in presence of, 1,391,148
—, nitrophenol made with, 1,320,076; 1,320,077; 1,417,368
—, *o*-nitrophenol made with, 1,320,076; 1,320,077
—, nitroproducts purified with, 1,395,641
—, 3-nitro-salicylic acid-5-sulfonyl chloride solvent, 1,125,124
—, nitrotoluene purified with, process for, 1,309,559; 1,450,675
—, nitroxylene purified with, process for, 1,309,559; 1,450,675
—, nucleus of, protecting, method of nitration, 1,380,186
—, oat seed, treatment of using, 1,218,850
—, ocotillo gum solvent, 1,290,795
—, oil, animal, extraction of, using, 1,504,588
—, —, —, hydrogenated, sulfonated, made with, 1,374,607
—, —, drying, made with, 1,425,882; 1,425,883; 1,425,884
—, —, essential, extraction of, using, 1,504,588
—, —, extraction of, solvent for, as, 1,224,485
—, —, mineral, emulsion of, made using, 1,230,599
—, —, —, extraction of, using, 1,504,588
—, —, —, recovery with of, 1,176,094
—, —, —, separation from of, 1,176,094
—, —, —, sulfonic acid compounds of, made with, 1,477,829
Benzene, oil, paper container for, made with, 1,324,849
—, —, prepared, made with, 1,149,171
—, —, sulfonated, made with, 1,374,607
—, —, vegetable, extraction of, using, 1,504,588
—, —, —, hydrogenated, sulfonated, made with, 1,374,607
—, oils contg., cracking, 1,396,174
—, oil cloth substitute made with, 1,175,791
—, oil-cracking by-product, 1,409,709
—, oils extracted by, 1,425,882; 1,425,883; 1,425,884; 1,425,885; 1,504,588
—, oil extracted from cereal germs by, 1,431,525
—, oil extracted from nickel catalyst by, 1,431,982
—, oil extraction from wood of with, 1,264,551
—, oil gas contg., 1,215,903; 1,231,123; 1,235,283
—, oil solvent, 1,352,834
—, oleic acid, sulfonated, made with, 1,374,607
—, oleic acid and naphthalene sulfonated in, 1,416,284
—, oleoresin extraction from wood of with, 1,264,551
—, olive oil factis made with, 1,159,258
—, osteomalacia, compound for treatment of, made with, 1,205,138
—, oxidation of, apparatus for, 1,464,845
—, oxidizing, nitric acid and mercury for, 1,380,185; 1,380,186
—, oxy-cellulose, water-proofing of using, 1,499,025
—, oxycholesterol made with, 1,284,724
—, ozonizing, 1,430,538
—, packing made with, 1,185,074
—, paint contg., 1,315,748
—, paint made with, 1,131,578; 1,133,433; 1,167,264; 1,179,176; 1,179,413; 1,189,549; 1,192,756; 1,204,697; 1,209,333; 1,216,265; 1,216,266; 1,242,161; 1,370,195; 1,408,325; 1,451,092; 1,515,439
—, paint, aluminum, made with, 1,411,673
—, —, anti-fouling, made with, 1,456,509; 1,493,930
—, —, bituminous, mfr. of with, 1,262,344
—, —, concrete, made with, 1,383,268
—, —, priming, made with, 1,150,516
—, —, undercoating composition for, made with, 1,425,510
—, —, waterproof, made with, 1,506,371
—, paint primer contg., 1,164,324
—, paint remover made with, 1,129,770; 1,130,499; 1,143,110; 1,143,111; 1,143,130; 1,143,387; 1,143,877; 1,143,878; 1,147,848; 1,147,849; 1,147,850; 1,173,628; 1,185,641; 1,189,803; 1,189,804; 1,201,181; 1,204,851; 1,229,247; 1,235,721; 1,273,307; 1,281,156; 1,328,080; 1,381,485; 1,406,175; 1,495,547; 1,499,101; 1,516,064
—, paint remover contg. furfural and, 1,381,485
—, palm oil, sulfonated, made with, 1,374,607
—, panama hat, cleaning composition for, contg., 1,165,027
—, papaverine nitrite made with, 1,468,607
—, papaverine solvent, 1,468,607
—, paper, acid-proof, made with, 1,233,334
—, —, adhesive, made with, 1,198,099

Benzene, paper, alkali-proof, made with, 1,233,334
—, —, coating for, made with, 1,185,074
—, —, grease-proof, made with, 1,233,334
—, —, parchmentized, water-proofing of using, 1,499,025
—, —, printed, ink removed from using, 1,175,854
—, —, sized, water-proofing of using, 1,499,025
—, —, transparent coating for applied with, 1,277,904
—, —, unsized, waterproofing of using, 1,499,025
—, —, waterproof, made with, 1,233,334; 1,499,025; 1,517,075
—, —, wax, recovery of from with, 1,284,647
—, paper coated with soln. contg., 1,322,786
—, paper gaskets, sealing of using, 1,341,952
—, paranthracene, solubility of in, 1,303,639
—, paracoumarone solvent, 1,133,432; 1,191,801
—, paraffin, emulsion of, made using, 1,230,599
—, —, hydrocarbons, separation from of with, 1,278,023
—, paraffin dissolved by, 1,329,322
—, paraffin recovery from waxed paper by, 1,431,553
—, paraffin solvent, 1,172,773; 1,178,532; 1,277,904; 1,313,931
—, partial oxidation of, apparatus for, 1,515,299
—, —, process for, 1,515,299
—, paste made with, 1,198,099
—, pectins as emulsifier of, 1,440,356
—, 1-pentene phosphorite made with, 1,205,138
—, perylene made with, 1,384,615; 1,454,204
—, perylene solvent, 1,384,615; 1,454,204
—, petrolatum solution of, metals treated with, 1,395,413
—, petrolatum solvent, 1,395,413
—, petroleum, minerals, recovery from of using, 1,520,752
—, —, sand, recovery from of using, 1,520,752
—, petroleum still gas contg., 1,498,781; 1,498,782
—, phenanthrene solvent, 1,303,639; 1,413,557
—, phenol made with, 1,179,415; 1,210,726; 1,213,142; 1,227,894; 1,245,343; 1,245,353; 1,301,909; 1,309,683; 1,312,127; 1,320,454
—, phenol aldehyde condensate made with, 1,209,333; 1,216,265; 1,216,266; 1,252,507; 1,354,154; 1,368,753; 1,370,666; 1,414,139; 1,439,056
—, phenol aldehyde condensate, colloidal, made with, 1,392,849
—, phenol aldehyde condensate binder made with, 1,261,615
—, phenol aldehyde condensate lacquer made with, 1,261,615
—, phenol aldehyde condensate molding material mfr. with, 1,330,444
—, phenol aldehyde condensate solvent, 1,191,390; 1,261,615; 1,277,904; 1,309,581; 1,370,666; 1,396,021; 1,398,143; 1,398,144; 1,401,633; 1,404,792; 1,414,139; 1,439,056
—, phenol aldehyde condensate varnish made with, 1,261,615
—, phenol condensation product solvent, 1,429,267
—, phenyl benzoate solvent contg., 1,160,063
Benzene, phenyl ethyl alcohol made with, 1,315,619
—, phenylethyl cellulose solvent contg., 1,454,960
—, phenyl mercaptan in, removal of from, 1,276,284
—, phenyl phosphates made with, 1,425,393
—, 2-phenylquinolyl-4-methyl-*iso*-nitrosoketone prepared with, 1,434,306
—, phenyl-stibnic acid made with, 1,260,707
—, phenyl-stibnic acid, sodium salt of, made with, 1,260,707
—, phenyl-stibnic oxychloride made with, 1,260,707
—, phonograph record made with, 1,175,728
—, phosphorates, organic, made with, 1,205,138
—, phosphorites, organic, made with, 1,205,138
—, phosphorus, oxide in, dyeing process using, 1,333,700
—, phosphorus oxide solvent, 1,333,700
—, phosphorus pentachloride dissolved by, 1,334,641
—, photographic plate made with, 1,257,783
—, photographic print paper made with, 1,329,918
—, photographic print paper, transfer, made using, 1,228,680
—, photographic transfer paper made with, 1,474,596
—, phthalic anhydride purified with, 1,301,388
—, piano keys made with, 1,185,074
—, picric acid made with, 1,220,078; 1,299,171; 1,320,076; 1,320,077; 1,396,001
—, picric acid purified with, 1,396,001
—, pigment, chromium, colloidal, made with, 1,458,542
—, —, cobalt, colloidal, made with, 1,458,542
—, —, colloidal, made with, 1,458,542
—, —, iron, colloidal, made with, 1,458,542
—, —, lead, colloidal, made with, 1,458,542
—, —, nickel, colloidal, made with, 1,458,542
—, —, zinc, colloidal, made with, 1,458,542
—, pine oil made using, 1,505,438
—, pitch solvent, 1,467,797
—, plastic made with, 1,146,787; 1,173,337; 1,175,791; 1,185,074; 1,188,797; 1,189,549; 1,191,801; 1,194,201; 1,209,333; 1,234,381; 1,245,981; 1,357,614; 1,395,905; 1,405,490; 1,425,784; 1,427,690; 1,427,911; 1,440,006; 1,474,830; 1,488,608
—, plastic composition made with, 1,425,784; 1,427,911
—, plate, die-, made with, 1,157,493
—, —, photographic, made with, 1,497,272
—, polish contg., 1,302,320
—, polyhalogenated, anthracene purified with, 1,420,198
—, polysaccharide as emulsifier of, 1,440,356
—, pontianac, hydrogenation of using, 1,249,050
—, potassium, lead alloy contg., treatment of using, 1,197,329
—, potassium acetyl-salicylate made with, 1,217,862
—, potassium derivatives made with, 1,204,234
—, potassium ethyl-xanthate made with, 1,507,089

Benzene, potassium sulfate (acid) prepared with, 1,467,749
—, powder, cellulose nitrate coated with, dinitrotoluene and, 1,313,459
—, —, cellulose nitrate coated with, 2.4-dinitrotoluene and, 1,313,459
—, —, cellulose nitrate coated with nitrohydrocarbon and, 1,313,459
—, —, propellent coated with dinitrotoluene and, 1,313,459
—, —, propellent coated with 2.4-dinitrotoluene and, 1,313,459
—, —, propellent coated with nitrohydrocarbon and, 1,313,459
—, —, smokeless, diphenylamine, removal of from using, 1,439,656
—, preparation from phenol, 1,430,585
—, presence in Borneo gasolene, 1,459,081
—, presence in Malaysian gasolene, 1,459,081
—, primer made with, 1,133,432
—, printer's blanket made with, 1,492,123
—, printing plate made with, 1,207,506; 1,242,523; 1,302,919; 1,370,666; 1,383,172; 1,401,633
—, printing plate, lithographic, made with, 1,245,119
—, —, planographic, made with, 1,215,493
—, printing ink made with, 1,410,012
—, properties of, 1,429,910
—, propyl alcohol, absolute, made with, 1,487,182
—, *iso*-propyl alcohol dehydrated with, 1,412,233
—, *iso*-propyl alcohol separated from butyl alcohol with, 1,422,583
—, propyl benzoate made with, 1,421,605
—, propyl butyrate made with, 1,421,605
—, propyl chloroacetate made with, 1,421,604
—, propyl citrate made with, 1,421,604
—, propylene chlorhydrin mfr. affected by, 1,295,339
—, propylene chloride mfr. affected by, 1,295,339
—, propyl hydrogen sulfate made with, 1,421,605
—, propyl lactate made with, 1,421,604
—, propyl malate made with, 1,421,604
—, propyl maleate made with, 1,421,604
—, propyl oxalate made with, 1,421,604
—, propyl propionate made with, 1,421,605
—, propyl salicylate made with, 1,421,605
—, propyl succinate made with, 1,421,604
—, propyl tartrate made with, 1,421,604
—, propyl valerate made with, 1,421,605
—, propyl *iso*-valerate made with, 1,421,605
—, proteid product made with, 1,245,981
—, protein, colloidal, made with, 1,392,849
—, proteins as emulsifier of, 1,440,356
—, pungent compound made with, 1,329,272
—, purification of, apparatus for, 1,157,988; 1,305,870
—, —, calcium carbonate for, 1,484,167
—, —, calcium hydroxide for, 1,484,167
—, —, carbon, activated, for, 1,484,167
—, —, cellulose for, 1,253,048
—, —, cellulose xanthate as by-product of, 1,253,048
—, —, copper sulfate for, 1,206,962
—, —, hydrogen sulfide for, 1,206,962
—, —, mercury(ic) chloride for, 1,206,962
—, —, metal sulfate for, 1,206,962
Benzene, purification of, paper pulp for, 1,253,048
—, —, process for, 1,157,988; 1,206,962; 1,246,671; 1,252,481; 1,253,048; 1,484,167
—, —, sodium hydroxide for 1,246,671; 1,253,048; 1,305,870
—, —, sulfuric acid for, 1,157,988; 1,206,962; 1,246,671; 1,305,870
—, —, wood for 1,252,048
—, putty made with, 1,216,265; 1,216,266
—, pyridine, removal of from, 1,206,962
—, quinone made with, 1,318,631; 1,318,632; 1,318,633
—, rachitic disease, compound for treatment of, made with, 1,205,138
—, ramie, waterproofing of using, 1,499,025
—, record, phonograph, made with, 1,146,414; 1,370,666; 1,404,792
—, —, sound reproducing, made with, 1,398,144
—, recovering, process for, 1,453,215
—, recovery from coal gas, 1,423,696
—, recovery from coke oven gases, 1,366,494
—, recovery from coking gases, 1,405,629
—, recovery from coking process, 1,435,219
—, recovery from cotton seed cake of, air for, 1,277,895
—, —, apparatus for, 1,277,895
—, —, flue gas for, 1,277,895
—, —, nitrogen for, 1,277,895
—, —, process for, 1,277,895
—, recovery from distillate gases, 1,408,105
—, recovery from gas, 1,412,954
—, recovery of, absorbing agents for, 1,382,889; 1,382,890
—, —, acetone oil for, 1,355,401
—, —, acid from, recovering, apparatus for, 1,402,194
—, —, aniline for, 1,355,402
—, —, apparatus for, 1,209,657; 1,228,225; 1,236,719; 1,315,700; 1,315,701; 1,429,856; 1,470,650; 1,513,928
—, —, coal tar for, 1,513,153
—, —, cresols for, 1,315,700; 1,315,701; 1,513,153
—, —, decahydro-naphthalene for, 1,513,153
—, —, paraffin oil for, 1,513,153
—, —, phenol for, 1,315,700; 1,315,701
—, —, process for, 1,315,700; 1,315,701; 1,381,002; 1,420,613; 1,437,980; 1,463,782; 1,513,153; 1,513,928
—, —, resins obtained as by-product of, 1,236,917
—, —, tetrahydro-naphthalene for, 1,513,153
—, —, tin containers mfr., 1,204,151
—, —, volatile matter from, 1,498,069
—, refractory made with, 1,450,140
—, removal from gas, nitric acid for, 1,332,529
—, resin made using, 1,505,438
—, resin, artificial, made with, 1,194,201; 1,489,744
—, —, —, non-solvent, 1,489,744
—, —, —, solvent, 1,141,944
—, —, emulsion of, made using, 1,230,599
—, —, extraction of using, 1,190,889
—, —, hydrogenation of using, 1,249,050
—, resin as emulsifier of, 1,440,356
—, resin extraction from wood of with, 1,264,551; 1,432,937
—, resin esters made with, 1,226,760
—, resin solvent, 1,316,842; 1,329,918; 1,360,658

Benzene, resin solvent of alcohol and, 1,259,347
—, resorcinol made with, 1,314,138
—, resorcinol purified with, 1,446,550; 1,446,551
—, resorcinol solvent, 1,406,745
—, resorcinol solvent of ether and, 1,314,138
—, retorts made with, 1,450,140
—, road paving made with, 1,220,401; 1,431,165
—, roofing made with, 1,167,195; 1,330,443
—, rosin, extraction of using, 1,190,889
—, —, hydrogenation of, using, 1,167,264; 1,249,050
—, —, nitrated, solvent, 1,414,164
—, rubber, artificial, made with, 1,161,904
—, —, chlorinated, solvent, 1,476,381
—, —, electrodeposition of, using, 1,476,374
—, —, fiber coated with, made with, 1,482,336
—, —, reclaiming of using, 1,235,850; 1,310,013; 1,424,668
—, —, spongy, made with, 1,156,184
—, —, synthetic, made with, 1,248,888
—, —, vulcanization of, using, 1,238,236; 1,463,794; 1,487,880
—, rubber adhesive made with, 1,341,782
—, rubber article made with, 1,193,883; 1,491,265
—, rubber article, ornamenting, of, using, 1,251,182
—, —, seamed, made with, 1,500,097
—, rubber cement contg., 1,316,295; 1,392,240
—, rubber dissolved by, 1,301,841; 1,425,530
—, rubber flooring, laying of, adhesive for, made with, 1,515,439
—, rubber gaskets, sealing of using, 1,341,952
—, rubber glove made with, 1,193,883
—, rubber incorporated with rosin by, 1,433,124
—, rubber latex, chlorination of, using, 1,491,265
—, rubber latex coagulated by, 1,492,027
—, rubber like substance made with, 1,415,468
—, rubber prepared with, 1,467,749
—, rubber recovered from fabric with, 1,321,200
—, rubber softened with, 1,427,283
—, rubber solvent, 1,146,414; 1,193,883; 1,217,213; 1,217,214; 1,217,215; 1,220,401; 1,228,680; 1,300,263; 1,302,064; 1,302,065; 1,312,452; 1,316,295; 1,350,533; 1,371,157; 1,377,152; 1,389,574; 1,395,396; 1,396,409; 1,424,668; 1,427,134; 1,427,754; 1,431,455; 1,443,012; 1,446,039; 1,463,780; 1,463,884; 1,464,143; 1,467,356; 1,467,749; 1,469,563; 1,482,336; 1,482,340; 1,487,880; 1,492,123; 1,492,580; 1,496,500
—, rubber substitute made with, 1,151,948; 1,159,257; 1,159,258; 1,175,791; 1,185,074
—, rubber treating composition contg., 1,464,143
—, rust loosening compound containing, 1,333,363
—, rustproofing composition made with, 1,179,176
—, salicyclo-salicylic acid solvent, 1,483,217
—, salts, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, "saltpeter rot," varnish impervious to, made with, 1,133,432
—, sand bitumen, recovery of from using, 1,520,752
Benzene, sand bitumen, bituminous material, recovery of from using, 1,520,752
—, —, petroleum, recovery of from using, 1,520,752
—, sandarac, hydrogenation of using, 1,249,050
—, sand paper made with, 1,468,960
—, sateen, coated, made with, 1,468,818
—, sealing composition for gaskets contg., 1,341,952
—, seed, treatment of using, 1,218,850
—, selenium oxychloride as solvent for, 1,385,081; 1,423,231
—, separating, process for, 1,453,215
—, separating from amylene, selenium oxychloride for, 1,445,329
—, separating from heptane, selenium oxychloride for, 1,445,329
—, separation from gas of, 1,252,481; 1,405,154
—, separation from paraffin hydrocarbons, 1,441,341
—, shale oil made using, 1,244,840
—, sheep hide, waterproofing of using, 1,150,047
—, sheet material made with, 1,350,533
—, shellac, hydrogenation of using, 1,249,050
—, shellac substitute made with, 1,327,332
—, ship, concrete, painting of with, 1,262,344
—, shoe, box toe for, made with, 1,196,276
—, shoe cleaning composition contg., 1,439,915
—, shoe filler made with, 1,217,213; 1,217,214; 1,217,215
—, shoe sole made with, 1,173, 988
—, shoe stiffener made with, 1,316,650
—, shoe stiffeners moistened with, 1,415,378
—, silk, artificial, made with, 1,156,969; 1,217,028; 1,347,801; 1,440,006; 1,458,542; 1,501,206; 1,508,928
—, —, —, cellulose acetate made with, 1,363,763
—, —, —, cellulose nitrate made with, 1,441,204
—, —, —, waterproofing of using, 1,499,025
—, —, waste, spinning of using, 1,232,374
—, silver acetyl-salicylate made with, 1,217,862
—, silver leaf, artificial, made with, 1,253,956
—, size contg., 1,313,343
—, sizing composition contg., 1,299,663
—, slip covers made with, 1,360,763
—, sludge, sulfonic acid green, solvent, 1,474,933
—, —, —, tar de-emulsified with, 1,271,387
—, soap made with, 1,425,882; 1,425,883; 1,425,884
—, soap as emulsifier of, 1,440,356
—, soap made from fatty acids dissolved in, 1,385,735
—, sodium, lead alloy contg., treatment of using, 1,197,329
—, sodium acetyl-salicylate made with, 1,217,862
—, sodium anthranilate made with, 1,458,715
—, sodium *p*-benzene disulfonate made with, 1,314,138
—, sodium benzene sulfonate made with, 1,191,880; 1,212,612; 1,229,593
—, sodium bisulfate made with, 1,191,880
—, sodium cyanamide (Na_2CN_2), made with, 1,186,367
—, sodium cyanide (Na_2CN), made with, 1,186,367
—, sodium derivatives made with, 1,204,234

Benzene, sodium ethyl-xanthate made with, 1,507,089
—, sodium naphthalene-sulfonate made with, 1,211,923
—, sodium *o*-nitro-benzoate made with, 1,458,715
—, sodium phenolate made with, 1,213,142
—, sodium salicyclo-salicylate made with, 1,483,217
—, sodium sulfate (acid) prepared with, 1,467,749
—, solidified, mfr. of, alcohol for, 1,484,190
—, —, —, alcoholate for, 1,223,153
—, —, —, ammonia for, 1,484,190
—, —, —, ammonium stearate for, 1,484,190
—, —, —, calcium chloride for, 1,223,153
—, —, —, ethyl alcohol for, 1,223,153
—, —, —, fatty acid for, 1,223,153
—, —, —, methyl alcohol for, 1,223,153
—, —, —, oleic acid for, 1,484,190
—, —, —, palmitic acid for, 1,484,190
—, —, —, potassium for, 1,223,153
—, —, —, potassium hydroxide for, 1,223,153
—, —, —, potassium methylate for, 1,223,153
—, —, —, potassium stearate for, 1,223,153
—, —, —, process for, 1,223,153; 1,484,190
—, —, —, soap for, 1,484,190
—, —, —, sodium for, 1,223,153
—, —, —, sodium ethylate for, 1,223,153
—, —, —, sodium hydroxide for, 1,223,153; 1,484,190
—, —, —, sodium stearate for, 1,223,153; 1,484,190
—, —, —, stearic acid for, 1,223,153; 1,484,190
—, —, *see also Alcohol, solidified; Fuel, solidified; Incendiary product*
—, solubility of benzyl acetylsalicylate in, 1,436,304
—, solubility of dimethylamine in, 1,434,306
—, solubility of dimethyl *p*-aminophenyl acetate in, 1,434,429
—, solubility of 2-phenylquinolyl-4-methylketone in, 1,434,306
—, solubility of zinc butyl xanthate in, 1,440,962
—, solvent, for, carbon tetrachloride and selenium oxychloride as, 1,445,329
—, —, chloroform and selenium oxychloride as, 1,445,329
—, —, selenium oxychloride as, 1,385,081; 1,445,329; 1,473,350
—, —, selenium oxychloride and carbon tetrachloride as, 1,445,329
—, —, selenium oxychloride and chloroform as, 1,445,329
—, —, selenium oxychloride and sulfur trioxide as, 1,445,329
—, —, sulfur trioxide and selenium oxychloride as, 1,445,329
—, solvent recovery apparatus for, 1,218,616
—, soya bean oil, sulfonated, made with, 1,374,607
—, sparklers made with, 1,204,709
—, stain, shingle, made with, 1,189,549
—, starch, colloidal, made with, 1,392,849
—, —, water-proofing of using, 1,499,025
—, starch as emulsifier of, 1,440,356
Benzene, starch ethers made with, 1,350,820
—, starch ether solvent, 1,350,820
—, steel, coating of using, 1,195,090
—, steel etched using, 1,376,365
—, stencil made with, 1,376,365
—, storing of, process for, 1,498,069
—, straw, water-proofing of using, 1,499,025
—, straw oil, recovery with of, 1,176,094
—, —, separation from of, 1,176,094
—, stripping from coal gas, 1,422,007
—, strontium acetyl-salicylate made with, 1,217,862
—, succinic acid made with, 1,147,768; 1,147,770; 1,193,951; 1,491,465
—, sugar, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, suint, extraction of, using, 1,238,873
—, sulfating of, air for, 1,159,032; 1,159,033
—, —, apparatus for, 1,159,032; 1,159,033
—, —, manganese dioxide for, 1,159,032; 1,159,033
—, —, nitrogen oxides for, 1,159,032; 1,159,033
—, —, oxygen for, 1,159,032; 1,159,033
—, —, process for, 1,159,032; 1,159,033
—, —, sodium chloride for, 1,159,032; 1,159,033
—, —, sulfur dioxide for, 1,159,032; 1,159,033
—, —, sulfurous acid for, 1,159,032; 1,159,033
—, sulfonamides, alkyl, prepared from, 1,454,959; 1,454,960; 1,454,961
—, sulfonated compound made with, 1,425,882; 1,425,883; 1,425,884
—, sulfonation of, apparatus for, 1,301,360
—, —, continuous, 1,459,081
—, —, process for, 1,279,295; 1,279,296; 1,301,360; 1,321,994; 1,406,745; 1,422,564; 1,452,881
—, —, sulfuric acid for, 1,321,994
—, —, sulfur trioxide for, 1,321,994
—, sulfur, colloidal, made with, 1,458,532
—, —, finely-divided, made with, 1,497,649
—, sulfur black made with, 1,220,078
—, sulfur chloride solvent, 1,405,845
—, sulfur dioxide solvent, 1,392,370; 1,487,880
—, sulfur dispersing agent, 1,458,542
—, sulfur phenol resin solvent, 1,435,801
—, sulfur precipitated from solutions by, 1,425,530
—, sulfur recovered from spent gas purifying oxides by, 1,404,199; 1,478,180
—, sulfur removed from anthranilic acid by, 1,458,715
—, sulfur solvent, 1,404,199; 1,458,542; 1,478,180
—, sulfuric acid, benzene-sulfonic acid, separation from of, using, 1,229,593
—, sunflower oil, emulsion of, made using, 1,230,599
—, surfacing composition contg., 1,405,941
—, surgical ligature made with, 1,239,690
—, tallow, sulfonated, made with, 1,374,607
—, tannic acid as emulsifier of, 1,440,356
—, tanning compound made with, 1,469,044
—, tannins as emulsifier of, 1,440,356
—, tar oil, recovery with of, 1,176,094
—, —, separation from of, 1,176,094
—, tar solvent for, 1,371,460

Benzene, ternary mixture of *iso*-propyl alcohol, water and, 1,422,583
—, 7.8.9.10-tetrachlor-2.1-*a*-anthrisoxazole-6.11-dione made with, 1,417,875
—, textile, marking of, using, 1,374,329
—, —, treatment of, using, 1,417,587
—, —, wear-proofing of, using, 1,417,587
—, therapeutic compound made with, 1,205,138; 1,250,345
—, thermoscope made with, 1,374,857
—, thiocarbanilide made with, 1,482,317
—, thiocarbanilide, derivative of, made with, 1,477,803; 1,477,804
—, thiocyanates in, removal of from, 1,276,284
—, thionyl chloride solvent, 1,499,025
—, thistledown, spinning of, using, 1,232,374
—, thus, hydrogenation of, using, 1,249,050
—, tile flooring, laying of, adhesive for, made with, 1,515,439
—, tin electrodeposited in presence of, 1,397,222
—, tin powder, protecting coatings of using, 1,181,889
—, tire, patching of, composition for, contg., 1,489,477
—, —, pneumatic, made with, 1,476,381
—, toluene made with, 1,216,174
—, toluene conversion into, hydrogen for, 1,365,849
—, toluene substitute contg., 1,411,035
—, *p*-toluidine made with, 1,431,470
—, *p*-*p'*-tolydibromindigo, reaction with, 1,412,038
—, *o*-tolyl phosphates made with, 1,425,393
—, *p*-tolyl phosphates made with, 1,425,393
—, toys made with, 1,185,074
—, tragacanth, colloidal, made with, 1,392,849
—, tragacanth as emulsifier of, 1,440,356
—, treatment of, alkali for, 1,474,136
—, —, process for, 1,474,136
—, —, sulfuric acid for, 1,474,136
—, triarylguanidine made with, 1,466,535
—, *o*-trimethylacetoxy-benzoic acid solvent, 1,338,297
—, trimethylacetylsalicylic acid solvent, 1,338,297
—, trinitrophenol made with, 1,380,185; 1,380,186
—, trinitrotoluene purified with, 1,309,559
—, —, process for, 1,450,675
—, trinitrotoluene solution of, filtering, silicic acid for, 1,413,457
—, trinitroxylene purified with, 1,309,559
—, —, process for, 1,450,675
—, *a.b.g*-triphenyl guanidine made with, 1,466,535
—, tropic acid dissolved in, 1,305,301
—, trunk linings made with, 1,360,763
—, tube made with, 1,175,791
—, tuberculosis, substance for treatment of, made with, 1,250,345
—, tubing made with, 1,350,533
—, tung oil, sulfonated, made with, 1,374,607
—, turpentine made using, 1,505,438
—, turpentine extraction from wood of with, 1,264,551
—, ultramarine, colloidal, made with, 1,458,542
—, ultramarine dispersing agent, 1,458,542
Benzene, undercoating composition contg., 1,425,510
—, vanillin solvent, 1,345,649
—, vanillyl derivatives purified with, 1,329,272
—, varnish made with, 1,131,578; 1,133,432; 1,133,433; 1,159,257; 1,159,258; 1,167,264; 1,191,390; 1,195,673; 1,204,697; 1,209,333; 1,216,265; 1,216,266; 1,226,760; 1,234,381; 1,242,161; 1,251,863; 1,347,801; 1,354,154; 1,357,614; 1,370,195; 1,395,905; 1,405,490; 1,408,325; 1,411,050; 1,413,666; 1,436,820; 1,440,006; 1,441,181
—, varnish (waterproof), made with, 1,190,765
—, —, undercoating composition for, made with, 1,425,510
—, varnish base made with, 1,226,760
—, varnish surface, cracked, composition for treating contg., 1,492,404
—, varnish remover made with, 1,129,770; 1,130,499; 1,143,110; 1,143,111; 1,143,130; 1,143,387; 1,147,848; 1,147,849; 1,147,850; 1,185,641; 1,189,803; 1,189,804; 1,201,181; 1,229,247; 1,235,721; 1,273,307; 1,281,156; 1,328,080; 1,381,485; 1,414,139; 1,437,170; 1,499,101; 1,516,064
—, velour, relief design on, made with, 1,492,580
—, velvet, relief design on, made with, 1,492,580
—, vinyl halides prepared with, 1,425,130
—, viscose made with, 1,251,237
—, vitamine made with, 1,468,251
—, vitamine obtained using, 1,162,907
—, vitamine, antineuritic made with, 1,468,251
—, —, antiscorbutic made with, 1,468,251
—, volatilizing, process for, 1,453,215
—, vulcanization using, 1,240,116; 1,467,197
—, vulcanizing accelerator made with, 1,406,771
—, wallcoverings made with, 1,431,455; 1,482,336
—, wall paper made with, 1,175,791
—, wall paper, coating composition for, made with, 1,425,510
—, washing medium contg., 1,395,902
—, washing of, apparatus for, 1,305,870
—, "wash" oil ingredient, 1,429,467
—, water emulsified in, mfr. of, dammar for, 1,410,012
—, —, —, process for, 1,410,012
—, water gas recovery from of, 1,310,748
—, waterproof material made with, 1,330,443; 1,431,455; 1,513,133
—, waterproofing made with, 1,234,381; 1,517,075
—, waterproofing composition contg., 1,315,109; 1,315,110; 1,395,885; 1,399,724
—, waterproofing process using, 1,180,704; 1,388,827; 1,388,828
—, waterproofing solution contg., 1,382,077
—, water removed from ethylene chlorhydrin by, 1,386,118
—, water removed from isopropyl alcohol by, 1,412,233
—, wax, emulsion of, made using, 1,230,599
—, —, extraction of, using, 1,504,588
—, wax solvent contg., 1,173,628; 1,277,904; 1,327,378
—, weed killer contg., carbon bisulfide and, 1,366,293
—, welding torch gas made with, 1,505,338; 1,505,339

Benzene, wheat seed, treatment of using, 1,218,850
—, whipcord, artificial, made with, 1,468,818
—, wood, artificial, made with, 1,209,333
—, —, coating for, made with, 1,185,074
—, —, drying of, using, 1,497,362
—, —, finishing compound for, contg., 1,169,930
—, —, impregnation of using, 1,198,040; 1,469,466
—, —, preservative for contg., 1,456,509
—, —, waterproofing of using, 1,499,025
—, wool, cleaning of, using, 1,238,873
—, wool fabric, relief design on, made with, 1,492,580
—, wool grease, extraction of using, 1,238,873
—, yeast, colloidal, made with, 1,392,849
—, zinc acetyl-salicylate made with, 1,217,862
—, zinc butyl xanthate dissolved by, 1,440,962
—, zinc salts soluble in, vulcanizing with, 1,467,197
—, zinc sulfide prepared with, 1,443,077
—, *see also Coal tar distillate; Fuel, liquid; Hydrocarbon, benzene; Hydrocarbons*
Benezene-anthracene parazene, dyestuff made with, 1,340,696
—, preparation of, 1,340,696
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—, thioureas made with, 1,218,656
—, ureas made with, 1,218,656
Benzil, dyestuff made with, 1,216,921
Benzin, raw, see Benzene
Benzine, abrasive, binder for made with, 1,468,960
—, abrasive belt, waterproof, made with, 1,484,759
—, abrasive discs, waterproof, made with, 1,484,759
—, abrasive fabric made with, 1,141,371
—, abrasive paper, waterproof, made with, 1,484,759
—, abrasive wheel, waterproof, made with, 1,484,759
—, adhesive made with, 1,510,591
—, agar-agar, colloidal, made with, 1,392,849
—, air, explosive mixtures of and, 1,143,623
—, airplane dope contg., 1,320,290; 1,329,386; 1,393,355
—, albumen, colloidal, made with, 1,392,849
—, alcohol, solidified, made with, 1,208,265; 1,277,149
—, aluminum, fabric coated with, made using, 1,376,737
—, —, insulation, electric, made for using, 1,137,986
Benzine, aluminum, paper, tissue, coated with, made using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, silk coated with, made using, 1,376,737
—, —, wood coated with, made using, 1,376,737
—, aluminum alloy, insulation, electric, made for using, 1,137,986
—, aluminum cork coated with, made using, 1,376,737
—, aluminum foil made with, 1,178,863; 1,225,044
—, aluminum powder, protecting coatings of using, 1,181,889
—, ammonia made with, 1,251,954
—, ammonium compound made with, 1,251,954
—, amyl acetate made with, 1,197,019
—, amyl benzoate made with, 1,197,019
—, amyl butyrate made with, 1,197,019
—, amyl cellulose non-solvent, 1,504,178
—, amyl formate made with, 1,197,019
—, amyl propionate made with, 1,197,019
—, anthracene washed with, 1,419,186
—, arsenical solution contg., 1,456,509
—, asphalt paint contg., 1,447,782
—, automobile top lining treated with, 1,412,014
—, balata solvent, 1,312,452
—, battery, storage, container for, made with, 1,447,782
—, beeswax, yellow, solvent, 1,124,114
—, belt, woven, impregnated with, 1,310,867
—, benzyl cellulose non-solvent, 1,504,178
—, binder made with, 1,189,549
—, blood, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, board made with, 1,245,984
—, boiler compound made with, 1,182,947
—, brake lining made with, 1,414,378
—, brass powder, coating, protection of, using, 1,181,889
—, breech block, gas check pad for, made with, 1,229,662
—, brom-ethylene made with, 1,425,130
—, bronze powder, protecting coatings of, using, 1,181,889
—, bronze powder varnish made with, 1,157,768
—, building material made with, 1,218,217
—, 1.3-butadiene made with, 1,436,819
—, butyl cellulose non-solvent, 1,504,178
—, *n*-butyl-*b*-diethylamino-ethyl-*p*-aminobenzoate hydrochloride dissolved by, 1,334,642
—, carbon remover contg., 1,372,639
—, carragheen moss, colloidal, made with, 1,392,849
—, cartridge shell, paper, made with, 1,135,356
—, casein, colloidal, made with, 1,392,849
—, —, treatment of, using, 1,209,539
—, casein product made with, 1,375,624
—, catalyst, nickel monoxide, regenerated with, 1,326,122
—, —, nickel suboxide, regenerated with, 1,326,122
—, cattle food made with, 1,147,768
—, celluloid, paint for, made using, 1,249,390
—, celluloid substitute made with, 1,245,976; 1,245,983; 1,245,984; 1,427,645
—, cellulose acetate, colloidal, made with, 1,392,849

Benzine, cellulose acetate insoluble in, 1,330,543
—, cellulose acetate precipitated by, 1,330,543
—, cellulose acetate precipitated from solution using, 1,175,791
—, cellulose acetate solvent contg., 1,160,979; 1,310,841
—, cellulose ester, colloidal, made with, 1,392,849
—, cellulose ester dispersed by, 1,392,849
—, cellulose ether non-solvent, 1,504,178
—, cellulose nitrate, colloidal, made with, 1,392,849
—, cellulose nitrate lacquer contg., 1,355,978
—, cellulose nitrate solvent contg., 1,152,625; 1,158,265; 1,160,979; 1,196,144; 1,267,445; 1,329,386; 1,341,710; 1,355,976; 1,356,440; 1,398,525; 1,439,293
—, cellulose nitrate solvent made with, 1,148,258
—, cellulose xanthate made with, 1,251,237
—, cement made with, 1,276,221
—, cement, paint for, made with, 1,179,413
—, cereal, proteid extracted from with, 1,321,479; 1,321,480
—, ceresin made with, 1,178,532
—, chain made with, 1,175,941
—, chlor-ethylene made with, 1,425,130
—, chlorination of, process for, 1,148,258
—, cigarette tip made with, 1,153,578
—, cleaner contg., 1,239,416; 1,319,475; 1,473,620
—, cleaning with, 1,455,350
—, cloth stain contg., 1,412,014
—, clutch facing made with, 1,270,559
—, coating, acid-proof, made with, 1,185,722
—, coating composition made with, 1,179,413; 1,185,722; 1,189,549; 1,189,550; 1,189,551; 1,400,041
—, coffee extract made with, 1,175,490
—, colored leaf made with, 1,158,265
—, color lake insoluble in, 1,434,619
—, concrete, coating composition for, made with, 1,189,550; 1,189,551; 1,400,041
—, —, paint for, made with, 1,179,413
—, concrete coating contg., 1,400,041
—, concrete floor, treatment of, using, 1,246,827
—, concrete surfaced using, 1,515,121
—, container made with, 1,355,976
—, container, fiber board, made with, 1,512,729
—, copper powder protecting coating of using, 1,181,889
—, cork, aluminum coated, made with, 1,376,737
—, —, gold coated, made with, 1,376,737
—, —, lead coated, made with, 1,376,737
—, —, metal coated, made with, 1,376,737
—, —, zinc coated, made with, 1,376,737
—, cork article, artificial, made with, 1,131,860
—, corn, proteid extracted from with, 1,321,479; 1,321,480
—, coumarone resins dissolved by, 1,383,268
—, coumarone resin solvent, 1,157,768
—, cutlery polishing mixture contg., 1,422,707
—, de-coloring of, process for, 1,515,733
—, —, *see also Benzine, refining of*
—, de-odorizing of, process for, 1,435,824; 1,515,733
Benzine, desulfurizing of, aluminum hydroxide for, 1,457,656
—, —, bauxite for, 1,457,656
—, —, floridin for, 1,457,656
—, —, iron hydroxide for, 1,457,656
—, —, process for, 1,515,733
—, —, *see also Benzine, refining of*
—, detergent made with, 1,165,498
—, detonator made with, 1,211,721
—, dextrin, colloidal, made with, 1,392,849
—, diaphragm, sound reproducing, made with, 1,289,007
—, die, metallic, made with, 1,157,493
—, distilling apparatus for, 1,372,880
—, distilling dirty, process of, 1,414,465
—, egg, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, electrical insulation contg., 1,255,139
—, electric light bulb colored with, 1,259,505
—, electrotype plate matrix made with, 1,222,138
—, elemi solvent, 1,267,445
—, enamel made with, 1,242,161; 1,452,219
—, enamel remover made with, 1,381,485
—, envelope, adhesive for, made with, 1,198,099
—, etching, film, photographic, treatment of for, made with, 1,256,981
—, etching resist made with, 1,149,738
—, ethyl cellulose non-solvent, 1,504,178
—, explosive made with, 1,211,721
—, fabric, acid-proof, made with, 1,233,334
—, —, alkali-proof, made with, 1,233,334
—, —, aluminum coated, made with, 1,376,737
—, —, coating for, contg., 1,165,222; 1,277,695
—, —, gold coated, made with, 1,376,737
—, —, grease-proof, made with, 1,233,334
—, —, lead coated, made with, 1,376,737
—, —, metal coated, made with, 1,376,737
—, —, soil-proof, made with, 1,277,695
—, —, waterproof, made with, 1,233,334; 1,240,345
—, —, zinc coated, made with, 1,376,737
—, fabric fireproofed with, 1,261,736
—, fabrics scoured with, 1,435,864
—, fat made with, 1,147,768; 1,147,770
—, fat, emulsion of, made with, 1,230,599
—, fat extracted from casein by mixture of alcohol and, 1,375,624
—, fat, solvent contg., 1,156,119; 1,405,902; 1,464,557
—, fiber rubber coated, made with, 1,482,336
—, fiber board box made with, 1,512,729
—, filament, artificial, viscose, made with, 1,251,237
—, filler, wood made with, 1,316,674
—, film, motion picture, blemished, restorative for contg., 1,139,681; 1,192,424
—, —, —, renovating of, using, 1,203,548
—, —, photographic, varying porosity of, made with, 1,256,981
—, filtering of, apparatus for, 1,328,044
—, finish remover made with, 1,140,449; 1,147,851; 1,147,852; 1,167,640; 1,167,641; 1,172,773
—, fire-proofing contg., 1,123,401; 1,261,736
—, fireproofing composition contg., 1,310,841

Benzine, floor, composition, treating of with composition contg., 1,282,706
—, floor covering made with, 1,245,984; 1,482,336; 1,508,899; 1,508,900
—, flour, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, fluor-ethylene made with, 1,425,130
—, food made with, 1,260,656
—, food product, gelatinous, globular particles of, made with, 1,201,132; 1,201,133
—, fuel, liquid, made with, 1,495,005; 1,519,905
—, gas mantle made with, 1,123,869
—, gelatin, blood, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, colloidal, made with, 1,392,849
—, —, egg, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, flour, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, globular particles of, made with, 1,201,132; 1,201,133
—, —, medicine, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, milk, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, salts, emulsions of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, sugar, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, glass, metal, joining of and, using, 1,167,798
—, —, paint for. made with, 1,249,390
—, "gloss oil" contg., 1,307,805
—, glucose made with, 1,185,262
—, glue made with, 1,176,644
—, glue, animal, globular particles of, made with, 1,201,132; 1,201,133
—, —, colloidal, made with, 1,392,849
—, glycerol made with, 1,147,768; 1,147,770
—, gold, cork coated with, made with, 1,376,737
—, —, fabric, coating of, using, 1,376,737
—, —, paper coated with, made using, 1,376,737
—, —, paper, tissue, coated with, made using, 1,376,737
—, —, silk coated with, made using, 1,376,737
—, —, wood coated with, made with, 1,376,737
—, gold leaf made with, 1,267,445
—, gold leaf, applied to cloth using, 1,124,114
—, —, applied to fabric using, 1,124,114
—, —, applied to leather using, 1,124,114
—, —, applied to paper using, 1,124,114
—, —, imitation, made with, 1,158,265; 1,160,979; 1,201,758; 1,387,068
—, —, paper, attaching to of, using, 1,374,492
—, grease, separation from of, apparatus for, 1,202,969
—, —, —, process for, 1,202,969
—, —, —, steam for, 1,202,969
—, gum, colloidal, made with, 1,392,849
—, gum arabic solvent, 1,458,308
—, gum solvent contg., 1,156,119
—, gutta percha solvent, 1,312,452
—, hair cloth treated with, 1,484,669
—, hat, straw, filler for, made with, 1,213,435
—, heater, chemical, made with, 1,506,322
—, hemoglobin, colloidal, made with, 1,392,849
—, hydrocarbon, diolefin, made with, 1,436,819
—, —, liquid, made with, 1,251,954
Benzine, hydrocarbon, separation from of, apparatus for, 1,202,969
—, —, —, process for, 1,202,969
—, —, —, steam for, 1,202,969
—, ink, printing, paper, removal from of, using, 1,249,575
—, —, rotogravure, contg., 1,447,734
—, insecticide contg., 1,456,509
—, insulating material made by aid of, 1,386,008
—, insulation, electric, made with, 1,123,401; 1,245,976; 1,245,980; 1,245,981; 1,245,984; 1,248,447; 1,255,139; 1,448,556; 1,492,155
—, —, heat, made with, 1,123,401; 1,344,324
—, iodo-ethylene made with, 1,425,130
—, Japan oil, Sipes' contg., 1,319,286
—, lacquer made with, 1,185,514; 1,195,673; 1,245,981; 1,245,982; 1,427,645
—, lacquer remover made with, 1,381,485
—, lactic acid made with, 1,147,768; 1,147,770
—, lead, cork coated with, made with, 1,376,737
—, —, fabric coated with, made with, 1,376,737
—, —, paper, tissue, coated with, made with, 1,376,737
—, —, paper coated with, made with, 1,376,737
—, —, silk coated with, made with, 1,376,737
—, —, wood coated with, 1,376,737
—, leather made with, 1,200,146
—, leather, artificial, made with, 1,245,977; 1,427,645; 1,508,899; 1,508,900
—, —, —, viscose, made with, 1,251,237
—, —, chrome, treatment of with, 1,173,988
—, —, cleaning of, using, 1,244,062
—, —, coating of, made with, 1,165,222
—, —, dyeing of using, 1,183,829
—, —, finishing of, using, 1,234,494
—, —, patent, made with, 1,175,791
—, —, treating of using, 1,183,829
—, —, waterproofing of, using, 1,244,062
—, leather degreasing with, 1,290,073
—, leather dressing contg., 1,329,968; 1,338,286
—, leather paint contg., 1,346,846
—, leather preservative contg., 1,390,537
—, leather roller treating composition contg., 1,403,944
—, leather substitute made with, 1,175,791; 1,482,336
—, lecithin solvent, 1,464,557
—, legume, proteid extracted from with, 1,321,479; 1,321,480
—, light transforming composition made with, 1,196,144
—, linoleum substitute made with, 1,245,978; 1,245,984; 1,427,645
—, linseed oil substitute made with, 1,432,110
—, liquids cooled with, 1,435,142
—, lubricating oil made with, 1,211,721
—, lubricating oil, separation from of, apparatus for, 1,202,969
—, —, —, process for, 1,202,969
—, —, —, steam for, 1,202,969
—, machine oil, emulsion of, made using, 1,230,599
—, mfr. of, alkyl chloride for, 1,325,299
—, —, alum for, 1,274,913
—, —, aluminum for, 1,325,299
—, —, aluminum chloride for, 1,274,913; 1,325,299

Benzine, mfr. of, aluminum chloride-hydrocarbon compound for, 1,325,299
—, —, aluminum halide for, 1,325,299
—, —, aluminum halide-hydrocarbon compound for, 1,325,299
—, —, aluminum salt for, 1,274,913
—, —, aluminum sulfate for, 1,274,913
—, —, ammonia for, 1,221,698
—, —, ammonium sulfide as catalyst for, 1,221,698
—, —, apparatus for, 1,205,578; 1,208,214; 1,208,378; 1,221,698; 1,264,668; 1,274,913; 1,344,671; 1,495,563
—, —, benzene for, 1,325,299
—, —, carbon monoxide for, 1,344,671
—, —, cerium oxide as catalyst for, 1,205,578
—, —, chalcopyrite as catalyst for, 1,221,698
—, —, clay, porous, as catalyst for, 1,221,698
—, —, cobalt as catalyst for, 1,221,698
—, —, copper sulfide as catalyst for, 1,221,698
—, —, cracking process for, 1,205,578; 1,208,214; 1,208,378; 1,221,698; 1,274,913; 1,324,212; 1,324,213; 1,325,299; 1,344,671
—, —, —, apparatus for, 1,320,726; 1,320,727
—, —, fuel oil for, 1,264,668
—, —, fuller's earth for, 1,221,698
—, —, gas oil for, 1,205,578; 1,208,214; 1,208,378; 1,325,299
—, —, gas oil, Galician, for, 1,344,671
—, —, hydrocarbon for, 1,205,578; 1,221,698; 1,325,299; 1,344,671
—, —, hydrochloric acid for, 1,325,299
—, —, hydrogen for, 1,221,698; 1,274,913; 1,344,671
—, —, hydrogen sulfide as catalyst for, 1,221,698
—, —, illuminating gas for, 1,221,698
—, —, iron chloride for, 1,325,299
—, —, iron oxide as catalyst for, 1,205,578
—, —, iron sulfide as catalyst for, 1,221,698
—, —, "iron by hydrogen" as catalyst for, 1,221,698
—, —, kerosene for, 1,208,214; 1,208,378; 1,264,668
—, —, kieselguhr for, 1,325,299
—, —, lead oxide as catalyst for, 1,205,578
—, —, lubricating oil for, 1,208,214; 1,208,378
—, —, mercury(ic) chloride for, 1,325,299
—, —, metal hydroxide for, 1,344,671
—, —, metal oxide for, 1,344,671
—, —, metal oxide as catalyst for, 1,205,578
—, —, methane for, 1,344,671
—, —, naphthalene for, 1,125,422
—, —, nickel as catalyst for, 1,221,698
—, —, nitrogen for, 1,344,671
—, —, oil, mineral, for, 1,264,668; 1,325,299
—, —, palladium as catalyst for, 1,221,698
—, —, paraffin for, 1,208,214; 1,208,378
—, —, petroleum for, 1,205,578; 1,208,214; 1,208,378;. 1,221,698; 1,274,913; 1,325,299; 1,344,671
—, —, petroleum, Illinois crude, for, 1,125,422
—, —, —, Lime crude, for, 1,125,422
—, —, —, Pennsylvania crude, for, 1,125,422
—, —, platinum, spongy, as catalyst for, 1,221,698
Benzine, mfr. of, process for, 1,125,422; 1,205,578; 1,208,214; 1,208,378; 1,221,698; 1,264,668; 1,304,125; 1,344,671; 1,428,311; 1,428,312; 1,495,563
—, —, pyrite as catalyst for, 1,221,698
—, —, pyrolusite as catalyst for, 1,205,578
—, —, sodium sulfide as catalyst for, 1,221,698
—, —, steam for, 1,221,698
—, —, sulfide ore as catalyst for, 1,221,698
—, —, sulfur as catalyst for, 1,221,698
—, —, sulfuric acid for, 1,221,698
—, —, vanadium chloride for, 1,325,299
—, —, water for, 1,274,913
—, —, water gas for, 1,221,698
—, —, zinc dust as catalyst for, 1,221,698
—, meal, colloidal, made with, 1,392,849
—, medicine, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, —, gelatinous, globular particles of, made with, 1,201,132; 1,201,133
—, metal, coating of, made with, 1,165,222
—, —, cork coated with, made using, 1,376,737
—, —, fabric coated with, made using, 1,376,737
—, —, glass, joining of and using, 1,167,798
—, —, paint for, made with, 1,249,390
—, —, paper coated with, made with, 1,376,737
—, —, paper, tissue, coated with, made with, 1,376,737
—, —, porcelain, joining of and, using, 1,167,798
—, —, silk coated with, made with, 1,376,737
—, —, wood coated with, made with, 1,376,737
—, metal coated with, composition contg., 1,169,931
—, metal leaf made with, 1,160,979; 1,267,445
—, metal leaf, applied to cloth using, 1,124,114
—, —, applied to fabric using, 1,124,114
—, —, applied to leather using, 1,124,114
—, —, applied to paper using, 1,124,114
—, —, imitation, made with, 1,387,068
—, —, protecting coatings of using, 1,181,889
—, metal powder, protecting coatings of using, 1,181,889
—, methyl cellulose non-solvent, 1,504,178
—, milk, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, molded article made with, 1,175,791; 1,427,645; 1,448,556
—, Montan wax extracted with, 1,437,775
—, mother-of-pearl, imitation, made with, 1,351,529
—, motor fuel contg., 1,444,341
—, mucilage made with, 1,198,099
—, naphtha, emulsion of, made with, 1,230,599
—, naphthalene solvent, 1,182,947
—, natural gas, separation from of, apparatus for, 1,189,711
—, —, —, process for, 1,189,711
—, nickel monoxide, catalyst regenerated with, 1,326,122
—, nickel suboxide, catalyst regenerated with, 1,326,122
—, nicotine made with, 1,123,522
—, nicotine solvent, 1,123,522
—, ocotille gum made with, 1,262,990
—, ocotille gum solvent, 1,254,632
—, oil made with, 1,185,262

Benzine, oil, animal, separation from of, apparatus for, 1,202,969
—, —, —, —, process for, 1,202,969
—, —, —, —, steam for, 1,202,969
—, —, mineral, emulsion of, made with, 1,230,599
—, —, vegetable, separation from of, apparatus for, 1,202,969
—, —, —, —, process for, 1,202,969
—, —, —, —, steam for, 1,202,969
—, oil cloth substitute made with, 1,175,791
—, oil extracted from soya beans with, 1,427,645
—, oil extraction with, 1,454,419
—, oil solvent contg., 1,156,119
—, oil vulcanized in, 1,430,034
—, packing made with, 1,210,573
—, packing, leather, made with, 1,179,185
—, paint contg., 1,260,012; 1,317,469; 1,370,575; 1,374,161; 1,402,500; 1,411,971; 1,428,152
—, paint made with, 1,123,401; 1,145,782; 1,156,119; 1,165,222; 1,179,413; 1,189,549; 1,211,346; 1,226,889; 1,227,071; 1,242,161; 1,342,497; 1,381,274; 1,432,110; 1,436,736; 1,451,092; 1,513,865
—, paint, anti-fouling, made with, 1,200,162; 1,456,509
—, —, concrete, made with, 1,383,268
—, —, fireproof, contg., 1,444,051
—, —, flat, made with, 1,173,183
—, —, waterproof, contg., 1,444,051
—, paint brush cleaner made with, 1,280,162
—, paint oil made with, 1,417,103; 1,432,110
—, paint remover made with, 1,130,499; 1,143,110; 1,143,111; 1,147,848; 1,147,849; 1,156,119; 1,189,803; 1,189,804; 1,280,162; 1,381,485; 1,483,587
—, paint remover contg., furfural and, 1,381,485
—, paper, acid-proof, made with, 1,233,334
—, —, adhesive, made with, 1,198,099
—, —, alkali-proof, made with, 1,233,334
—, —, aluminum coated, made with, 1,376,737
—, —, gold coated, made with, 1,376,737
—, —, gold leaf, attaching of to, using, 1,374,492
—, —, grease-proof, made with, 1,233,334
—, paper, ink, printing, removal of from, using, 1,249,575
—, —, lead coated, made with, 1,376,737
—, —, metal coated, made using, 1,376,737
—, —, parchment, rubberized, made with, 1,506,317
—, —, tissue, aluminum coated made with, 1,376,737
—, —, —, gold coated, made with, 1,376,737
—, —, —, lead coated, made with, 1,376,737
—, —, —, metal coated, made with, 1,376,737
—, —, —, zinc coated, made with, 1,376,737
—, —, watermarked, imitation, made with, 1,479,337
—, —, waterproof, made with, 1,223,334
—, —, waterproofing of, using, 1,135,356; 1,204,149
—, —, wax recovery of from with, 1,284,647
—, —, zinc coated, made with, 1,376,737
—, paper impregnated with composition contg., 1,289,007
—, paper tube made with, 1,135,356
—, paracoumarone solvent, 1,133,432; 1,492,155
Benzine, paraffin, emulsion of, made with, 1,230,599
—, paraffin recovered from waxed paper by, 1,431,553
—, paraffin solvent, 1,423,256
—, paste made with, 1,198,099
—, phenols made with, 1,251,954
—, phenol aldehyde condensate, colloidal, made with, 1,392,849
—, phenol aldehyde condensate resin made with, 1,205,081
—, phenol aldehyde condensate resin solvent, 1,205,081
—, phenol aldehyde condensate solvent, 1,191,390
—, phenol ketone condensate made with, 1,448,556
—, photoengraving process for, 1,285,015
—, picture, film, photographic, treatment of for, made with, 1,256,981
—, plastic made with, 1,175,791; 1,189,549; 1,245,981; 1,245,984; 1,276,221
—, plate, die-, made with, 1,157,493
—, —, photographic, made with, 1,285,015
—, polish made with, 1,239,416; 1,289,103; 1,319,475; 1,329,968; 1,390,691; 1,397,102; 1,515,870
—, Pontianak resin, composition of and, 1,179,413
—, Pontianak resin solvent, 1,189,550
—, porcelain, metal, joining of and, using, 1,167,798
—, primer made with, 1,133,432
—, printers blanket made with, 1,148,381
—, printing blocks prepared with, 1,412,093
—, printing plate made with, 1,496,268
—, printing plate, halftone, made with, 1,507,049
—, printing plate matrix made with, 1,382,713
—, propyl cellulose non-solvent, 1,504,178
—, *iso*-propyl cellulose non-solvent, 1,504,178
—, proteid, vegetable, made with, 1,275,308
—, proteid product made with, 1,245,981
—, protein, colloidal, made with, 1,392,849
—, record disk made with, 1,315,137
—, record, sound reproducing, resurfacing of, using, 1,378,344
—, recovery of, process for, 1,371,546; 1,381,002; 1,513,153
—, recovery of vapors of, process for, 1,452,778
—, recovery from rubber goods mfr., 1,426,949
—, refining of, alcohol for, 1,515,733
—, —, aluminum silicates for, 1,515,733
—, —, analcite for, 1,515,733
—, —, antimony compound for, 1,515,733
—, —, bentonite for, 1,515,733
—, —, borromite for, 1,515,733
—, —, chabazite for, 1,515,733
—, —, clay for, 1,515,733
—, —, copper aluminum silicate for, 1,515,733
—, —, copper compound for, 1,515,733
—, —, copper silicate alumina gel for, 1,515,733
—, —, fuller's earth for, 1,515,733
—, —, glycerol for, 1,515,733
—, —, glycol for, 1,515,733
—, —, green sand for, 1,515,733
—, —, heulandite for, 1,515,733
—, —, hormatone for, 1,515,733

Benzine, refining of, iron compound for, 1,515,733
—, —, laumontite for, 1,515,733
—, —, lead acetate for, 1,515,733
—, —, lead compound for, 1,515,733
—, —, manganese compound for, 1,515,733
—, —, natrolite for, 1,515,733
—, —, permutite for, 1,515,733
—, —, phillipsite for, 1,515,733
—, —, process for, 1,515,733
—, —, pyrophyllite for, 1,515,733
—, —, refinite for, 1,515,733
—, —, scolecite for, 1,515,733
—, —, sodium aluminum silicate for, 1,515,733
—, —, sodium plumbite for, 1,515,733
—, —, stilbite for, 1,515,733
—, —, sulfuric acid for, 1,515,733
—, —, thomsonite for, 1,515,733
—, —, water for, 1,515,733
—, —, zeolites for, 1,515,733
—, —, zinc compound for, 1,515,733
—, —, *see also Benzine, decolorizing of; Benzine, de-odorizing of; Benzine, de-sulfurizing of*
—, resins made with, 1,198,990; 1,211,721
—, resin, artificial, made with, 1,448,556
—, —, emulsion of, made with, 1,230,599
—, —, solvent for, made with, 1,156,119
—, resin oil solvent, 1,204,149
—, road paving made with, 1,211,721
—, roofing made with, 1,157,664; 1,167,195; 1,211,721; 1,374,885
—, rosin solvent, 1,289,007
—, rubber, artificial, made with, 1,289,444
—, —, devulcanizing of with, 1,322,152
—, —, fiber coated with, made with, 1,482,336
—, —, hard, substitute, made with, 1,315,137
—, —, reclaiming of using, 1,243,623
—, —, vulcanization of, using, 1,238,236
—, rubber article made with, 1,242,189
—, rubber cement made with, 1,182,669
—, rubber latex coagulated by, 1,492,027
—, rubber patching material contg., 1,333,196
—, rubber solvent, 1,312,452; 1,411,786; 1,436,736; 1,441,655; 1,482,336
—, rubber substitute made with, 1,151,948; 1,159,258; 1,175,791; 1,245,976; 1,245,979; 1,245,984; 1,427,645
—, rubber varnish made with, 1,148,381
—, rustproofing using, 1,441,605
—, salts, gelatin, emulsion of and, globular particules of, made with, 1,201,132; 1,201,133
—, "saltpeter rot," varnish impervious to, made with, 1,133,432
—, sand-paper made with, 1,141,371; 1,468,960
—, screen, motion picture, made with, 1,151,502
—, shellac substitute made with, 1,315,137; 1,326,917
—, shingle, artificial, made with, 1,218,217
—, shoe polish, white, made with, 1,249,742
—, shoe sole made with, 1,173,988
—, silk, aluminum coated, made with, 1,376,737
—, —, artificial, cellulose acetate, sizing of, using, 1,506,052
—, —, —, cellulose ester, sizing of, using, 1,506,052
Benzine, silk, artificial, cellulose ether, sizing of using, 1,506,052
—, —, —, cellulose nitrate, made with, 1,398,525
—, —, —, cuprammonium, sizing of, using, 1,506,052
—, —, —, sizing of using, 1,506,052
—, —, —, viscose, sizing of using, 1,506,052
—, —, gold coated, made with, 1,376,737
—, —, lead coated, made with, 1,376,737
—, —, metal coated, made with, 1,376,737
—, —, zinc coated, made with, 1,376,737
—, silver leaf, applied to cloth using, 1,124,114
—, —, applied to fabric using, 1,124,114
—, —, applied to leather using, 1,124,114
—, —, applied to paper using, 1,124,114
—, —, imitation, made with, 1,387,068
—, sizing composition contg., 1,299,663
—, sludge sulfonic acid, treatment of with, 1,211,721
—, soaps, insoluble, dissolved by, 1,428,258
—, sodium bicarbonate treatment with of, 1,317,582
—, sodium carbonate treatment with of, 1,317,582
—, sodium hydroxide treatment with of, 1,317,582
—, soya bean, proteid extracted from with, 1,321,479; 1,321,480
—, sponge rubber made with, 1,422,884
—, stain, wood, made with, 1,316,674
—, starch, colloidal, made with, 1,392,849
—, stencil made with, 1,168,223; 1,215,098; 1,231,554
—, stone, artificial, made with, 1,344,324
—, succinic acid made with, 1,147,768; 1,147,770
—, sugar, gelatin, emulsion of and, globular particles of, made with, 1,201,132; 1,201,133
—, sulfuric acid made with, 1,211,721
—, sulfuric acid, fuming, treatment with of, 1,317,582
—, —, treatment with of, 1,317,582
—, sulfur solvent, 1,322,152
—, sunflower oil, emulsion of, made with, 1,230,599
—, thyroid product made with, 1,392,767
—, tin, electrodeposition of made with, 1,149,738
—, tin powder, protecting coatings of using, 1,181,889
—, tile made with, 1,245,984
—, tire, coating of with composition contg., 1,182,669
—, tragacanth, colloidal, made with, 1,392,849
—, transfer metallic product made with, 1,444,345
—, tube made with, 1,175,791
—, turpentine made with, 1,198,990
—, turpentine solvent, 1,204,149
—, vanillin made with, 1,418,904
—, vanillin solvent, 1,418,904
—, vapors of, recovery, process for, 1,452,778
—, varnish contg., 1,307,805; 1,411,050; 1,458,493
—, varnish made with, 1,133,432; 1,156,119; 1,159,258; 1,191,390; 1,195,673; 1,226,760; 1,242,161; 1,280,861; 1,326,917; 1,427,645; 1,432,110; 1,436,820; 1,488,274
—, varnish, rosin, made with, 1,179,413

Benzine, varnish remover made with, 1,130,499; 1,143,110; 1,143,111; 1,147,848; 1,147,849; 1,156,119; 1,189,803; 1,280,162; 1,381,485; 1,483,587
—, varnish substitute made with, 1,315,137
—, vinyl halides prepared with, 1,425,130
—, viscose made with, 1,251,237
—, wall covering made with, 1,482,336
—, wall paper made with, 1,175,791
—, washing medium contg., 1,395,902
—, water paint contg., 1,423,256
—, waterproofing made with, 1,123,401; 1,135,356; 1,204,149; 1,231,687; 1,240,345; 1,326,917; 1,416,852; 1,417,103; 1,441,605
—, waterproofing composition contg., 1,441,605
—, waterproofing solution contg., 1,417,103
—, wax, emulsion of, made with, 1,230,599
—, wax solvent, 1,172,773; 1,327,378
—, wood, aluminum coated, made with, 1,376,737
—, —, coating of, made with, 1,165,222
—, —, gold coated, made with, 1,376,737
—, —, lead coated, made with, 1,376,737
—, —, metal coated, made with, 1,376,737
—, —, paint for, made with, 1,249,390
—, wood, preservative for, contg., 1,456,509
—, —, zinc coated, made with, 1,376,737
—, wood filler contg., 1,422,292
—, wood impregnated with, 1,211,721
—, wood pulp made with, 1,198,990
—, yeast, colloidal, made with, 1,392,849
—, zinc, cork coated with, made with, 1,376,737
—, —, fabric coated with, made with, 1,376,737
—, —, paper, tissue, coated with, made with, 1,376,737
—, —, paper coated with, made with, 1,376,737
—, —, silk coated with, made with, 1,376,737
—, —, wood coated with, made with, 1,376,737
—, *see also Benzene; Benzoline; Gasolene; Ligroin; Naphtha*
Benzine driers, insulating paper coated with, 1,374,885
—, paint contg., 1,374,161
Benzine substitute, mfr. of, alcohol for, 1,256,537
—, —, ethyl alcohol for, 1,256,537
—, —, hydrocarbon, paraffin, for, 1,256,537
—, —, kerosene for, 1,256,537
—, —, methyl alcohol for, 1,256,537
—, —, petroleum distillate for, 1,256,537
Benzinoform, see Carbon tetrachloride, CCl_4
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Benzoates, amyl benzoate made with, 1,197,019
—, apple juice, sterilization of, using, 1,208,859
—, apricot juice, sterilization of, using, 1,208,859
—, cellulose esters, solvent for, contg., 1,283,183
—, cellulose nitrate, solvent for, contg., 1,283,183
—, chlorhydrin as source of, 1,456,590
—, fruit juice, sterilization of, using, 1,208,859
—, grape juice, sterilization of, using, 1,208,859
—, hypochlorous acid prepared with, 1,446,873
—, leprosy, substance for treatment of, made with, 1,250,345
—, mfr. of, alkali carbonate for, 1,463,255
—, —, alkali hydroxide for, 1,463,255
—, —, apparatus for, 1,458,491
—, —, calcium hydroxide for, 1,458,491
Benzoates, mfr. of, calcium hypochlorite for, 1,458,491
—, —, chlorine for, 1,458,491
—, —, chromic acid for, 1,458,491
—, —, dibenzyl for, 1,463,255
—, —, gasolene for, 1,317,868
—, —, iron compound for, 1,463,255
—, —, manganese dioxide for, 1,463,255
—, —, process for, 1,458,491; 1,463,255
—, —, sodium bichromate for, 1,458,491
—, —, sodium hydroxide for, 1,463,255
—, —, sodium manganese for, 1,463,255
—, —, sulfuric acid for, 1,458,491
—, —, toluene for, 1,458,491
—, orange juice, sterilization of, using, 1,208,859
—, peach juice, sterilization of, using, 1,208,859
—, pear juice, sterilization of, using, 1,208,859
—, solvent contg., 1,283,183
—, therapeutic compound made with, 1,250,345
—, tuberculosis, substance for treatment of, made with, 1,250,345
Benzoazurine G, photography, colored, process for using, 1,517,049
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Benzo black-blue R, see Ditolyl-disazo-a-naphthalene-azo-bi-a-naphthol-sulphonic acid
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a-Benzocarbazoldedione, dyestuff made with, 1,261,858 see errata V. 2 p. 1187
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2(1)-Benzofuranone, dyestuff made with, 1,233,433
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Benzohydrol, camphor substitute, 1,181,860
—, celluloid substitute made with, 1,181,860
Benzoic acid, animal matter, sterilization of, using, 1,250,079
—, apple juice, sterilization of, using, 1,208,859
—, apricot juice, sterilization of, using, 1,208,859
—, *aspergillus*, cultures of immune to, 1,148,938
—, *aspergillus oryzae*, cultures of immune to, 1,148,938
—, bactericide using, 1,250,079
—, barrel, wood, oil-proof, made with, 1,311,595
—, battery, dry, made with, 1,303,844
—, beer wort, sterilization of, using, 1,250,079

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—, benzene sodium sulfonate and sodium cyanide for mfr., 1,367,898
—, benzoates prepared from, 1,458,491
—, benzoyl chloride made with, 1,254,970
—, board made with, 1,245,984
—, box, paper, oil-proof, made with, 1,311,595
—, calcium benzoate made with, 1,458,491
—, celluloid, solvent for, contg., secondary alcohol esters of, 1,158,217
—, celluloid substitute made with, 1,134,527; 1,245,976; 1,245,984; 1,280,862
—, cellulose esters, solvent for, made with, 1,283,183
—, cellulose ether solvent contg., 1,494,472
—, cellulose nitrate, solvent for made with, 1,283,183
—, —, —, contg. secondary alcohol esters of, 1,158,217
—, container, oil-proof, made with, 1,311,595
—, cordial contg., secondary alcohol esters of, 1,158,217
—, cotton seed oil, package for, made with, 1,311,595
—, derivatives of, celluloid substitute made with, 1,134,527
—, —, thermoplastic made with, 1,134,527
—, diabetes, compound for treatment of made with, 1,470,024
—, diastatic product made with, 1,192,584
—, *di-n-butyl-amino-ethyl alcohol ester of, see Di-n-butyl amino-ethyl benzoate*
—, dyestuff made with, 1,483,084
—, enamel made with, 1,137,374
—, enzymes, altering characteristics of, using, 1,250,079
—, essential oil contg., secondary alcohol esters of, 1,158,217
—, esters of phthalic acid and, insulation, electric, made with, 1,141,944
—, —, resin, artificial, made with, 1,141,944
—, —, varnish made with, 1,141,944
—, ethyl benzoate made with, 1,421,605
—, ethyl cellulose solvent contg., 1,494,472
—, explosive made with, 1,242,900
—, explosive preserved with, 1,390,671
—, fat, package for made with, 1,311,595
—, —, sterilization of, using, 1,250,079
—, ferment, altering characteristics of, using, 1,250,079
—, film made with, 1,494,472
—, flavoring extracts contg., secondary alcohol esters of, 1,158,217
—, floor covering made with, 1,245,984
—, fluorescent substances, protection from compound suitable for contg., 1,511,874
—, food product, sterilization of, using, 1,250,079
—, formation by oxidation of naphthalene, 1,336,182
—, formation in benzaldehyde mfr., 1,405,261
—, formation of, benzotrichloride for, 1,306,221; 1,357,160
—, —, benzyl chloride for, 1,357,160
—, fruit, sterilization of, using, 1,250,079
—, fruit juice, sterilization of, using, 1,208,859; 1,250,079
Benzoic acid, fumigating using, 1,250,079
—, fungi, cultures of immune to, 1,148,938
—, furs, preserving of, using, 1,250,079
—, glands, sterilization of, using, 1,250,079
—, glyceryl benzoate from, 1,421,605
—, glycol benzoate made with, 1,421,605
—, grape juice, sterilization of, using, 1,208,859
—, grease, package for made with, 1,311,595
—, herbs, sterilization of, using, 1,250,079
—, hops, sterilization of, using, 1,250,079
—, hydrogen dioxide stabilized with, 1,128,637
—, hypophysis extract, action on of, 1,296,064
—, insulation, electric, made with, 1,245,976; 1,245,984
—, ivory substitute made with, 1,245,976
—, koji made with, 1,148,938; 1,192,584; 1,263,817
—, lacquer made with, 1,137,374
—, larvae, killing of, using, 1,250,079
—, leather, artificial, made with, 1,245,977
—, linoleum substitute made with, 1,245,978; 1,245,984
—, liquor contg., secondary alcohol esters of, 1,158,217
—, "listerine" constituent, 1,496,735
—, lithium benzoate made with, 1,458,491
—, malt substitute made with, 1,148,938
—, manganese dioxide for mfr. of, 1,365,956
—, mfr. of, air for, 1,284,887; 1,284,888; 1,285,117; 1,336,182; 1,374,722
—, —, alkali carbonate for, 1,463,255
—, —, alkali earth oxide as catalyst for, 1,285,117
—, —, alkali hydroxide for, 1,463,255
—, —, aluminum oxide as catalyst for, 1,284,887; 1,374,722
—, —, antimony oxide as catalyst for, 1,284,887
—, —, apparatus for, 1,336,182; 1,458,491; 1,488,278; 1,502,941
—, —, asbestos for, 1,284,888; 1,285,117
—, —, asbestos, platinized, as catalyst for, 1,284,887
—, —, benzaldehyde for, 1,151,255; 1,193,795
—, —, benzene monosulfonic acid for, 1,309,683
—, —, benzene sodium sulfonate and sodium cyanide for, 1,367,898
—, —, benzyl chloride for, 1,463,190
—, —, bibenzyl for, 1,502,941
—, —, bismuth oxide as catalyst for, 1,284,887
—, —, calcium benzoate for, 1,332,028
—, —, calcium hydroxide for, 1,332,028; 1,458,491; 1,463,190
—, —, calcium hypochlorite for, 1,458,491; 1,463,190
—, —, calcium sulfide for, 1,332,028
—, —, carbon as catalyst for, 1,284,887
—, —, carbon dioxide for, 1,374,722
—, —, catalyst for, mfr. of, ammonium bichromate for, 1,486,781
—, —, —, —, ammonium metavanadate for, 1,486,781
—, —, —, —, cerium(ic) chromate for, 1,486,781
—, —, —, —, cerium(ic) iron chromate for, 1,468,781
—, —, —, —, cerium(ic) vanadate for, 1,486,781
—, —, —, —, chromium oxide for, 1,486,781
—, —, —, —, chromium vanadate for, 1,486,781

Benzoic acid, mfr. of, catalyst for, mfr. of, cobalt chromate for, 1,486,781
—, —, —, —, cobalt molybdate for, 1,486,781
—, —, —, —, iron(ic) chloride for, 1,486,781
—, —, —, —, iron chromate for, 1,486,781
—, —, —, —, iron(ic) chromate for, 1,486,781
—, —, —, —, iron molybdate for, 1,486,781
—, —, —, —, iron molybdochromate for, 1,486,781
—, —, —, —, iron oxide for, 1,486,781
—, —, —, —, iron vanadochromate for, 1,486,781
—, —, —, —, iron(ic) vanadochromate for, 1,486,781
—, —, —, —, nickel chromate for, 1,486,781
—, —, —, —, nickel molybdate for, 1,486,781
—, —, —, —, nickel vanadate for, 1,486,781
—, —, —, —, nitric acid for, 1,486,781
—, —, —, —, oxide for, 1,486,781
—, —, —, —, palladium oxide for, 1,486,781
—, —, —, —, process for, 1,486,781
—, —, —, —, vanadium oxide for, 1,486,781
—, —, —, —, vanadium pentoxide for, 1,486,781
—, —, cellulose for, 1,488,278
—, —, cerium oxide as catalyst for, 1,284,887
—, —, chalk for, 1,332,028
—, —, chlorine for, 1,458,491
—, —, chromic acid for, 1,458,491
—, —, chromium oxide as catalyst for, 1,284,887
—, —, chromyl chloride for, 1,284,887
—, —, cobalt oxides for, 1,284,887
—, —, cobalt oxide as catalyst for, 1,284,887
—, —, copper as catalyst for, 1,332,028
—, —, copper oxides as catalyst for, 1,284,887
—, —, dibenzyl for, 1,463,255
—, —, formaldehyde as catalyst for, 1,332,028
—, —, granite for, 1,488,278
—, —, hydrochloric acid for, 1,332,028
—, —, iron compound for, 1,463,255
—, —, iron oxides as catalyst for, 1,284,887
—, —, kaolin as catalyst for, 1,284,887
—, —, magnesium oxide as catalyst for, 1,284,887; 1,285,117
—, —, manganese dioxide for, 1,284,887; 1,463,255
—, —, manganese dioxide and sulfuric acid for, 1,365,956
—, —, mercury sulfate for, 1,284,888; 1,285,117
—, —, metal oxide as catalyst for, 1,284,887; 1,284,888; 1,285,117
—, —, molybdenum oxide as catalyst for, 1,284,887; 1,284,888; 1,336,182
—, —, naphthalene for, 1,284,888; 1,285,117; 1,336,182; 1,374,722
—, —, nickel oxides for, 1,284,887
—, —, nickel oxides as catalyst for, 1,284,887
—, —, niter cake for, 1,332,028
—, —, nitric acid for, 1,332,028
—, —, nitrogen for, 1,374,722
—, —, nitrogen oxides for, 1,332,028
—, —, oak, white, for, 1,488,278
—, —, oxygen for, 1,284,887; 1,284,888; 1,285,117; 1,374,722; 1,502,941
—, —, paraformaldehyde as catalyst for, 1,332,028
—, —, platinum as catalyst for, 1,284,887
—, —, porcelain as catalyst for, 1,284,887
Benzoic acid, mfr. of, potassium permanganate for, 1,488,278
—, —, process for, 1,193,795; 1,284,887; 1,284,888; 1,285,117; 1,332,028; 1,336,182; 1,374,722; 1,458,491; 1,463,190; 1,463,255; 1,486,781; 1,488,278; 1,502,941
—, —, silver oxide as catalyst for, 1,284,887
—, —, sodium benzoate for, 1,332,028
—, —, sodium bichromate for, 1,458,491
—, —, sodium bisulfide for, 1,332,028
—, —, sodium carbonate for, 1,332,028
—, —, sodium hydroxide for, 1,463,255
—, —, sodium manganese for, 1,463,255
—, —, starch as catalyst for, 1,332,028
—, —, steam for, 1,374,722
—, —, sulfuric acid for, 1,284,887; 1,284,888; 1,285,117; 1,332,028; 1,365,956; 1,458,491
—, —, sulfuric acid and manganese dioxide for, 1,365,956
—, —, tin for, 1,332,028
—, —, tin oxide as catalyst for, 1,284,887
—, —, titanium oxide as catalyst for, 1,284,887
—, —, toluene for, 1,284,887; 1,332,028; 1,365,956; 1,458,491; 1,486,781; 1,488,278
—, —, toluene, nitric acid for, 1,332,028
—, —, tungsten oxide as catalyst for, 1,284,887
—, —, uranium oxide as catalyst for, 1,284,887
—, —, vanadium oxide as catalyst for, 1,284,887; 1,285,117
—, —, wood for, 1,488,278
—, —, zeolite, artificial, catalyst for, 1,193,795
—, —, zinc as catalyst for, 1,332,028
—, —, zinc oxide as catalyst for, 1,284,887
—, matrix, printing plate, made with, 1,144,338
—, —, stereotyping, made with, 1,144,338
—, meat, sterilization of using, 1,250,079
—, medicine, sterilization of using, 1,250,079
—, micro-organisms, altering characteristics of using, 1,250,079
—, milk, sterilization of using, 1,250,079
—, moyashi made with, 1,148,938
—, naphthalene oxidized to, 1,374,722
—, oil, package for made with, 1,311,595
—, —, sterilization of using, 1,250,079
—, orange juice, sterilization of using, 1,208,859
—, package, oil-proof, made with, 1,311,595
—, paint remover made with, 1,147,849
—, paper, oil-proof, made with, 1,311,595
—, peach juice, sterilization of using, 1,208,859
—, pear juice, sterilization of using, 1,208,859
—, petroleum, package for, made with, 1,311,595
—, petroleum hard oil, package for, made with, 1,311,595
—, phenol aldehyde condensate solvent contg., 1,137,374
—, phenol aldehyde condensate substitute made with, 1,245,976
—, phonograph record made with, 1,158,659; 1,158,660
—, photochemical processes, protection from, compound suitable for, contg., 1,511,874
—, photographic emulsion, protection from, compound suitable for, contg., 1,511,874
—, plastic made with, 1,245,984
—, propyl benzoate from, 1,421,605
—, proteid product made with, 1,245,976
—, pungent compound made with, 1,329,272

Benzoic acid, record, phonograph, matrix for, made with, 1,144,338
—, rubber substitute made with, 1,245,976; 1,245,979; 1,245,984
—, salts of, diuretic contg., 1,455,264
—, sausage stuffing, sterilization of using, 1,250,079
—, secretions, sterilization of using, 1,250,079
—, seeds, sterilization of using, 1,250,079
—, separating from phthalic acid, 1,464,844
—, separating from maleic acid, 1,377,534
—, serum, sterilization of using, 1,250,079
—, silk worm cocoons, killing of, using, 1,250,079
—, sodium benzoate made with, 1,458,491
—, solvent made with, 1,283,183
—, solvent for, toluene as, 1,458,491
—, sterilization using, 1,250,079
—, sublimation of, aluminum apparatus for, 1,489,707
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—, —, process for, 1,489,707
—, subliming, apparatus for, 1,445,870
—, suint ingredient, 1,405,371
—, therapeutic product, protection from, compound suitable for, contg., 1,511,874
—, thermoplastic made with, 1,134,527
—, tile made with, 1,245,984
—, toluene oxidized to, 1,377,534
—, 2-tribrommethyl-*iso*-propyl benzoate made with, 1,433,552
—, 2-trichlormethyl-*iso*-propyl benzoate made with, 1,443,552
—, ultra-violet filter, protection from, compound suitable for, contg., 1,511,874
—, ultra-violet light, protection from, compound suitable for, contg., 1,511,874
—, vaccines, sterilization of using, 1,250,079
—, vanillyl-benzoyl-amide from, 1,329,272
—, varnish made with, 1,137,374; 1,280,861
—, varnish remover made with, 1,147,849
—, vegetables, sterilization of using, 1,250,079
—, vegetable matter, sterilization of using, 1,250,079
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—, whiting, artificial, made with, 1,264,092
—, whiting substitute made with, 1,264,092
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—, lacquer made with, 1,137,374
—, phenol aldehyde condensate solvent contg., 1,137,374
—, varnish made with, 1,137,374
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—, allocain S made with, 1,399,312
—, benzoylation with, 1,296,602
—, benzoylethylmydriatin made with, 1,399,312
—, dihydroxyethylsulfide benzoic ester made with, 1,422,869
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—, 3-dimethylamino-methyl-6-methyl-3-heptanyl benzoate hydrochloride made with, 1,150,253
—, matrix, printing plate, made with, 1,144,338
—, —, stereotyping, made with, 1,144,338
—, phenol aldehyde condensate made with, (1,087,422); Re-14,530; 14,531; 1,139,470; 1,146,388; 1,255,500
—, phonograph record made with, 1,255,500
—, plastic made with, (1,087,422); Re-14,530; 14,531
—, pungent compound made with, 1,329,272
—, record, phonograph, made with, 1,146,388
—, —, —, matrix, made with, 1,144,338
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—, vanillyl-benzoyl-amide from, 1,329,272
—, wood, coating of using, 1,139,470
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—, cellulose acetate solvent, 1,386,576
—, *see also Ethyl benzoate*
o-Benzoic sulfimide, *o*-sulfamido-benzoyl-anilide made with, 1,153,121
—, *o*-sulfamido-benzoyl-*p*-phenetidine made with, 1,153,121
o-Benzoic sulfamide, see also Saccharin
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Benzoin, beverage made with, 1,500,670
—, cement made with, 1,408,325
—, compound $C_{28}H_{17}O_4N$, made with, 1,138,670
—, dyestuff made with, 1,138,670
—, emulsion, turbid, made with, 1,500,670
—, finish remover made with, 1,145,980
—, fumigating candle made with, 1,222,883
—, gutta percha substitute made with, 1,494,063
—, ink contg., 1,439,695; 1,439,696
—, insulation, electric, made with, 1,494,063
—, paint made with, 1,408,325
—, polish made with, 1,202,495
—, refinishing composition made with, 1,202,495
—, roller, inking, made with, 1,494,063
—, rubber substitute made with, 1,494,063
—, tire-healing composition contg., 1,434,764
—, typewriter platen made with, 1,494,063
—, waterproofing made with, 1,494,063
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5.6-Benzo-3-ketodihydro-1-thionaphthene, see 3(2)-Thiophanthrenone
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—, —, carbon bisulfide in, 1,344,545
—, —, carbon bisulfide separated from, 1,317,359
—, —, composition of, benzene in, 1,317,359
—, —, —, carbon bisulfide in, 1,317,359
—, —, —, hydrocarbon in, 1,317,359
—, —, —, pentane in, 1,317,359
—, —, —, toluene in, 1,317,359
—, —, —, xylene in, 1,317,359

"Benzol, 90%," duster, dustless, made with, 1,344,545
—, —, formation of, "light oil" for, 1,317,359
—, —, toluene in, 1,344,545
—, —, xylene in, 1,344,545
—, heavy, paracoumarone made with, 1,468,440
—, —, paraindene made with, 1,468,440
—, paracoumarone solvent, 1,332,860
—, recovery of, coke-oven gas for, 1,307,534
—, varnish contg., 1,408,325
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1-Benzol-azo-2-naphthylamine, see 1-(Phenyl-azo)-2-naphthylamine
Benzol-diazo-anilide, see Diazo-amino-benzene
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—, jute, linoleum scrap, recovery from of using, 1,480,473
—, linoleum scrap, recovery of using, 1,480,473
—, linoxyn, linoleum scrap, recovery from of using, 1,480,473
—, oil extracted from seeds with, 1,410,822
—, rubber, vulcanized, reclaiming of, using, 1,133,952
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—, —, hydrochloric acid for, 1,472,778
—, —, process for, 1,472,778
—, —, sodium arsenite for, 1,472,778
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—, —, diaminobenzophenone for, 1,472,778
—, —, process for, 1,472,778
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Benzopurpurin 6B, see Ditolyl-disazo-bi-a-naphthylamine-sulfonic acid
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1.2-Benzopyronem, see Coumarin
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(1.4-Benzoquinone)-3'-carbazolylimide, see N-(3'-carbazolyl)-p-quinonimine
Benzoquinone-*o*-nitranilide, reactions of, 1,405,446
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—, *see also a.a.a-Tribrom-toluene*
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a-Benzoyl-acetanilide, dyestuff made with, 1,216,812
Benzoylacetic anilide, see a-Benzoyl-acetanilide
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Benzoylacetic ether, see Ethyl benzoyl acetate
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1-Benzoylamineanthraquinone, chlorinating, 1,401,125
Benzoylamine-chloranthraquinone, mfr. of, 1,401,125
2-Benzoylamine-5-naphthol-7-sulfonic acid, dyestuff made with, 1,292,385
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1-Benzoylamino-anthraquinone, aluminum-leuco derivatives of, mfr. of, process for, 1,175,634
—, calcium-leuco derivatives of, mfr. of, process for, 1,175,634
—, dyestuff made with, 1,175,634
—, iron-leuco derivatives of, mfr. of, process for, 1,175,634
—, magnesium-leuco derivatives of, mfr. of, process for, 1,175,634
—, metal-leuco derivatives of, mfr. of, process for, 1,175,634

1-Benzoylamino-anthraquinone, tin-leuco derivatives of, mfr. of, process for, 1,175,634
—, zinc-leuco derivatives of, mfr. of, process for, 1,175,634
—, *see also Algol yellow W G*
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1-(Benzoylamino)-4-hydroxy-anthraquinone, see Algol rosa R
1-(Benzoylamino)-4-methoxy-anthraquinone, see Algol scarlet G
a-Benzoylamino-b-(3.4-methylenedioxy-phenyl)-propionic acid, methyl ester of, see Methyl a-benzoylamino-b-(3.4-methylenedioxy-phenyl) propionate
3-Benzoylamino-2-naphthol, dyestuff made with, 1,145,072
6-Benzoylamino-1-naphthol-acetic anhydride, compound $C_{23}H_{16}O_3N_2$, made with, 1,144,577
—, dyestuff made with, 1,144,577
7-(Benzoylamino)-1-naphthol-3.5-disulfonic acid, dyestuff made with, 1,199,890
Benzoyl-6-amino-1-naphthol-3-sulfonic acid (?), dyestuff made with, 1,216,760
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6-Benzoylamino-1-naphthol-3-sulfonic acid, dyestuff made with, 1,265,031; 1,245,694; 1,282,355; 1,282,356
—, —, copper compound of, properties of, 1,292,385
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2-Benzoylamino-5-oxynaphthalene, see 6-Benzoylamino-1-naphthol
4-Benzoylamino-phenol, see 4-Hydroxy-benzanilide
a-Benzoylamino-*b*-piperoxylpropionate, preparation of, 1,437,802
a-Benzoylamino-b-piperoxylpropionic acid ester, see Methyl a-benzoylamino-b-(3.4-methylenedioxy-phenyl)-propionate
a-Benzoylamino-*b*-piperoxylpropionic ester, preparation of, 1,437,802
1-(Benzoylamino)-4.5.8-trihydroxy-anthraquinone, see Algol violet B
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Benzoyl-benzoic acid, glycerol condensed with, 1,443,936
—, glycol condensed with, 1,443,936
—, insulation, electric, made with, 1,413,144; 1,413,145; 1,424,137
—, mfr. of, aluminum chloride for, 1,489,744
—, —, benzene for, 1,489,744
—, —, phthalic anhydride for, 1,489,744
—, —, process for, 1,489,744
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—, plastic made with, 1,489,744
—, polyglycerol condensed with, 1,443,936
—, record, phonograph, made with, 1,424,137
—, resins made with, 1,424,137
—, resins, artificial, made with, 1,424,137; 1,443,936; 1,489,744
—, —, synthetic, mfr. from glycerol and, 1,443,936
—, —, —, mfr. from glycol and, 1,443,936
—, —, —, mfr. from polyglycerol and, 1,443,936
—, varnish made with, 1,413,144; 1,413,145; 1,424,137
o-Benzoyl-benzoic acid, mfr. of, aluminum chloride for, 1,515,325
—, —, benzene for, 1,515,325
—, —, phthalic anhydride for, 1,515,325
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—, allocain S made with, 1,399,312
—, *tert*-amyl benzoate made with, 1,123,572
—, battery, dry, made with, 1,357,160
—, —, primary, made with, 1,357,160
—, benzoic acid from, 1,357,160
—, benzoylation with, 1,296,602
—, benzoyldiethylmydriatin from, 1,399,312
—, benzoyl(mono)ethylmydriatin from, 1,399,312
—, 1.3-bis(diethylamino)-2-propyl-benzoate made with, 1,193,634
—, 1.3-bis(*N*-ethyl-*N*-methyl-amino)-2-propyl benzoate made with, 1,193,634
—, carbon tetrachloride freezing point affected by, 1,292,744
—, *b*-chlorethyl benzoate from, 1,393,191
—, compound, $C_{23}H_{15}O_4N_2$, made with, 1,138,670
—, —, $C_{28}H_{18}O_7N_2S$, made with, 1,138,670
—, di-alkyl-amino-propyl esters from, 1,358,751
—, di-*n*-butyl-amino-alkyl-benzoates made with, 1,358,750
—, 2-(di-*sec*-butylamino)-ethyl benzoate made with, 1,513,730
—, 3-dimethylamino-methyl-6-methyl-3-heptanyl benzoate made with, 1,150,253
—, 3-dimethylaminomethyl-6-methyl-3-heptanyl benzoate hydrochloride made with, 1,150,253
—, 3-dimethylaminomethyl-6-octanyl benzoate hydrochloride made with, 1,150,580
—, dimethylaniline, action on, 1,411,683
—, dinitro-phenyl-benzoate made with, 1,198,040
—, dry battery contg., 1,357,160
—, dyestuff made with, 1,128,836; 1,138,670; 1,408,405
—, dyestuff dissolved by, 1,396,483
—, hydrochloric acid from, 1,357,160
—, mfr. of, acetyl for, 1,326,040
—, —, aldehyde for, 1,326,040

Benzoyl chloride, mfr. of, benzene for, 1,360,312
—, —, benzoic acid for, 1,254,970
—, —, carbonyl chloride for, 1,360,312
—, —, chlorine for, 1,326,040
—, —, ester for, 1,326,040
—, —, ether for, 1,326,040
—, —, ethyl acetate for, 1,326,040
—, —, hydrocarbon for, 1,326,040
—, —, oxide, organic, for, 1,326,040
—, —, phenol for, 1,326,040
—, —, phosphorus pentachloride for, 1,254,970
—, —, phosphorus trichloride for, 1,254,970
—, —, process for, 1,254,970; 1,326,040; 1,360,312
—, —, sodium benzoate for, 1,326,040
—, —, sulfur dioxide for, 1,326,040
—, —, tricresyl phosphate for, 1,326,040
—, *b*-naphthol made with, 1,254,970
—, pungent compound made with, 1,329,272
—, tribromo(tertiary) butyl benzoate from, 1,397,913
—, 2-tribrommethyl-*iso*-propyl benzoate made with, 1,443,552
—, trichloro-*tertiary*-butyl benzoate from, 1,443,552
—, vanillyl-benzoyl-amide from, 1,329,272
—, wood, impregnation of using, 1,198,040
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Benzoyldiethyl-mydriatin, see Allocain S
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3-Benzoyl-4.5-diketo-1-*o*-methoxyphenyl-2-phenyl-pyrrolidine, mfr. of, alcohol for, 1,148,637
—, —, benzaldehyde for, 1,148,637
—, —, benzene for, 1,148,637
—, —, benzoyl-pyruvic acid, esters of, for, 1,148,637
—, —, ethyl benzoylpyruvate for, 1,148,637
—, —, process for, 1,148,637
—, properties of, 1,148,637
3-Benzoyl-4.5-diketo-1(or 2)-phenyl-2(or 1)-*p*-tolyl-pyrrolidine, mfr. of, acetic acid, glacial, for, 1,148,637
—, —, alcohol for, 1,148,637
—, —, benzaldehyde for, 1,148,637
—, —, ethyl sodiobenzoylpyruvate for, 1,148,637
—, —, hydrochloric acid for, 1,148,637
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—, —, *p*-toluidine for, 1,148,637
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Benzoyl-2.4-dinitroaniline, mfr. of, process for, 1,296,602
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Benzoyldisulfide, accelerator in rubber vulcanization, 1,440,962
Benzoyl ecgonin, cocoa extract, removal from of, 1,235,450
Benzoyl ecgonin, mfr. of, alcohol for, 1,218,536
—, —, aluminum silicates for, 1,218,536
—, —, benzene for, 1,218,536
—, —, chloroform for, 1,218,536
—, —, cocoa leaves for, 1,218,536
—, —, fuller's earth for, 1,218,536
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Benzoyl(mono)-ethylmydriatinhydrochloride, preparation of, 1,399,312
N^1-Benzoyl-N^1-ethyl-*p*-phenylenediamine, dyestuff made with, 1,199,890
N^1-Benzoyl-N^1-ethyl-3-*p*-tolylenediamine, dyestuff made with, 1,199,890
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Benzoyl ethylxanthogenate, accelerator in rubber vulcanization, 1,440,962; 1,440,964
—, *see also Benzoyl ethyl-xanthate*
Benzoyl formic acid, see Phenyl glyoxylic acid
Benzoyl-glycine, see Hippuric acid
Benzoyl-glycocoll, see Hippuric acid
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—, —, beryllium bromide for, 1,373,038
—, —, beryllium carbonyl for, 1,373,038; 1,497,417
—, —, beryllium chloride for, 1,373,038; 1,497,417
—, —, beryllium cyanide for, 1,373,038; 1,497,417
—, —, beryllium fluoride for, 1,373,038; 1,511,829
—, —, beryllium halide for, 1,373,038; 1,497,417
—, —, beryllium iodide for, 1,373,038
—, —, beryllium oxide for, 1,254,987
—, —, beryllium salt for, 1,511,829
—, —, calcium fluoride for, 1,190,122; 1,511,829
—, —, carbon cathode for, 1,190,122
—, —, cobalt for, 1,373,038
—, —, copper for, 1,373,038
—, —, copper, iron coated with, cathode, for, 1,190,122
—, —, electrolytic apparatus for, 1,190,122
—, —, gold for, 1,373,038
—, —, iron, copper coated, cathode, for, 1,190,122
—, —, —, tin coated, cathode, for, 1,190,122
—, —, —, zinc coated, cathode, for, 1,190,122
—, —, iron alloy nickel in, cathode, for, 1,190,122
—, —, iron cathode for, 1,190,122
—, —, magnesium fluoride for, 1,511,829
—, —, nickel for, 1,373,038
—, —, nickel, iron alloy contg., cathode, for, 1,190,122
—, —, potassium chloride for, 1,190,122
—, —, process for, 1,190,122; 1,373,038; 1,497,417; 1,511,829
—, —, tin, iron coated with, cathode, for, 1,190,122
—, —, zinc, iron coated with, cathode, for, 1,190,122
—, properties of, 1,254,987
Beryllium, recovery from ores of, 1,392,045; 1,392,046
—, reducing from compounds of, 1,373,038
—, *see also Metals, alkali earth*
—, (pure), production of, beryllium chloride for, 1,306,568
—, —, —, beryllium halide for, 1,306,568
—, —, —, boron nitride for, 1,306,568
—, —, —, calcium for, 1,306,568
—, —, —, carbon filament for, 1,306,568
—, —, —, potassium for, 1,306,568
—, —, —, process for, 1,306,568
—, —, —, sodium for, 1,306,568
—, —, —, tantalum filament for, 1,306,568
—, —, —, tungsten for, 1,306,568
—, —, —, tungsten filament for, 1,306,568
Beryllium acetate, ammonia producing catalyst made with, 1,473,543
—, catalyst made with, 1,473,543
Beryllium alloy, aluminum in, 1,254,987
Beryllium aluminates, beryllium carbonate made with, 1,216,980; 1,216,981
—, beryllium hydroxide made with, 1,216,980; 1,216,981
—, beryllium oxide made with, 1,216,980; 1,216,981
—, paint made with, 1,216,980; 1,216,981
—, —, pigment made with, 1,216,980; 1,216,981
—, zirconium carbonate, basic, made with, 1,216,980; 1,216,981
—, zirconium oxide made with, 1,216,980; 1,216,981
—, zirconium sulfate made with, 1,216,980; 1,216,981
Beryllium aluminum silicate, beryllium chloride made with, 1,392,045
—, *see also Aluminum beryllium silicate; Beryl*
Beryllium antimoniate, enamel clouded using, 1,211,564
—, mfr. of, ammonium nitrate for, 1,211,564
—, —, process for, 1,211,564
Beryllium barium fluoride, see Barium beryllium fluoride
Beryllium borate, dental cement contg., 1,408,960
Beryllium bromide, acetal made with, 1,312,186
—, beryllium made with, 1,373,038
Beryllium carbide, beryllium chloride from, 1,418,527
—, formation of, 1,392,045; 1,418,527
Beryllium carbonate, ammonium producing catalyst made with, 1,473,543; 1,473,544
—, beryllium carbonate made with, 1,473,543; 1,473,544
—, catalyst made with, 1,473,543; 1,473,544
—, catalyst, dehydrogenation, made with, 1,271,013
—, —, hydrogenation, made with, 1,271,013
—, catalyst promoter, 1,271,013
—, mfr. of, alkali carbonate for, 1,216,980; 1,216,981
—, —, alkali hydroxide for, 1,216,980; 1,216,981
—, —, beryllium aluminates for, 1,216,980; 1,216,981
—, —, beryllium mineral for, 1,216,980; 1,216,981
—, —, beryllium salt for, 1,216,980; 1,216,981

Beryllium carbonate, mfr. of, beryllium silicate for, 1,216,980; 1,216,981
—, —, bisulfate for, 1,216,980; 1,216,981
—, —, hydrochloric acid for, 1,216,980; 1,216,981
—, —, process for, 1,216,980; 1,216,981
—, —, sodium bisulfate for, 1,216,980; 1,216,981
—, —, sulfuric acid for, 1,216,980; 1,216,981
—, —, zirconium mineral for, 1,216,980; 1,216,981
—, paint made with, 1,216,980; 1,216,981
—, pigment made with, 1,216,980; 1,216,981
Beryllium carbonyl, beryllium made with, 1,373,038; 1,497,417
—, beryllium, iron alloy coated with, made with, 1,373,038; 1,497,417
—, —, iron coated with, made with, 1,373,038; 1,497,417
—, iron, beryllium coated, made with, 1,373,038; 1,497,417
—, iron alloy, beryllium coated, made with, 1,373,038; 1,497,417
Beryllium chloride, acetal made with, 1,312,186
—, beryllium made with, 1,373,038; 1,497,417
—, beryllium, iron coated with, made with, 1,373,038; 1,497,417
—, —, iron alloy coated with, made with, 1,373,038; 1,497,417
—, —, pure, from, process for, 1,306,568
—, beryllium oxide made with, 1,418,527
—, iron, beryllium coated, made with, 1,373,038; 1,497,417
—, iron alloy, beryllium coated, made with, 1,373,038; 1,497,417
—, mfr. of, 1,418,527
—, —, ores for, 1,392,045; 1,392,046
—, reduction of, calcium for, 1,306,568
—, —, potassium for, 1,306,568
—, —, sodium for, 1,306,568
—, separation from iron and aluminum chlorides, 1,418,527
—, zirconium chloride separated from, 1,418,527
Beryllium chromate, alkali perborate made with, 1,253,061
—, sodium perborate made with, 1,253,061
Beryllium compounds, catalyst, dehydrogenation, made with, 1,271,013
—, —, hydrogenation, made with, 1,271,013
—, catalyst promoter, 1,271,013
—, ceramic insulating material contg., 1,409,953
—, ceramic ware contg., 1,438,598
—, insulation, electric, made with, 1,438,598
—, production of, 1,418,527
Beryllium cyanamide, catalyst contg., ammonia made with, 1,473,543; 1,473,544
—, mfr. of, ammonia for, 1,473,543; 1,473,544
—, —, beryllium carbonate for, 1,473,543; 1,473,544
—, —, process for, 1,473,543; 1,473,544
Beryllium cyanide, beryllium made with, 1,373,038; 1,497,417
—, beryllium, iron alloy coated with, made with, 1,373,038; 1,497,417
—, —, iron coated with, made with, 1,373,038; 1,497,417
—, iron, beryllium coated, made with, 1,373,038; 1,497,417
Beryllium cyanide, iron alloy, beryllium coated, made with, 1,373,038; 1,497,417
Beryllium fluoride, beryllium made with, 1,511,829
—, beryllium alloy from, 1,359,813
—, vanadium made with, 1,373,038
Beryllium formate, ammonia producing catalyst made with, 1,473,543
—, catalyst made with, 1,473,543
Beryllium halide, beryllium made with, 1,373,038; 1,497,417; 1,427,919
—, beryllium, iron alloy coated with, made with, 1,373,038; 1,497,417
—, —, iron coated with, made with, 1,373,038; 1,497,417
—, —, magnesium alloy contg., made with, 1,515,082
—, —, pure, from, process for, 1,306,568
—, iron, beryllium coated, made with, 1,373,038; 1,497,417
—, iron alloy, beryllium coated, made with, 1,373,038; 1,497,417
—, magnesium alloy, beryllium in, made with, 1,515,082
—, reduction of, calcium for, 1,306,568
—, —, potassium for, 1,306,568
—, —, sodium for, 1,306,568
Beryllium hydroxide, catalyst, dehydrogenation, made with, 1,271,013
—, —, hydrogenation, made with, 1,271,013
—, catalyst promoter, 1,271,013
—, —, ammonia made with, 1,148,570; 1,152,930
—, crucible made with, 1,157,662
—, mfr. of, alkali carbonate for, 1,216,980
—, —, alkali hydroxide for, 1,216,980; 1,216,981
—, —, beryllium aluminates for, 1,216,980; 1,216,981
—, —, beryllium mineral for, 1,216,980; 1,216,981
—, —, beryllium salt for, 1,216,980; 1,216,981
—, —, beryllium silicate for, 1,216,980; 1,216,981
—, —, bisulfate for, 1,216,980; 1,216,981
—, —, hydrochloric acid for, 1,216,980; 1,216,981
—, —, process for, 1,216,980; 1,216,981
—, —, sodium bisulfate for, 1,216,980; 1,216,981
—, —, sulfuric acid for, 1,216,980; 1,216,981
—, —, zirconium mineral for, 1,216,980; 1,216,981
—, paint made with, 1,216,980; 1,216,981
—, pigment made with, 1,216,980; 1,216,981
—, precipitated, ammonia for, 1,337,191
—, refractory made with, 1,157,662
Beryllium iodide, beryllium made with, 1,373,038
Beryllium mineral, beryllium carbonate made with, 1,216,980; 1,216,981
—, beryllium hydroxide made with, 1,216,980; 1,216,981
—, beryllium oxide made with, 1,216,980; 1,216,981
—, paint made with, 1,216,980; 1,216,981
—, pigment made with, 1,216,980; 1,216,981
—, zirconium carbonate, basic, made with, 1,216,980; 1,216,981
—, zirconium oxide made with, 1,216,980; 1,216,981

Beryllium mineral, zirconium sulfate made with, 1,216,980; 1,216,981
Beryllium molybdate, dental cement contg., 1,408,960
Beryllium nitrate, acetal made with, 1,312,186
—, ammonia, catalyst for the mfr. of, made with, 1,148,570; 1,152,930
—, catalyst, dehydrogenation, made with, 1,271,013
—, —, hydrogenation, made with, 1,271,013
—, catalyst for the mfr. of, ammonia made with, 1,148,570; 1,152,930
—, catalyst promoter, 1,271,013
—, polish made with, 1,128,287
Beryllium nitride, ammonia, catalyst for the mfr. of, made with, 1,491,588
—, catalyst, for the mfr. of ammonia, made with, 1,491,588
Beryllium oxalate, ammonia producing catalyst made with, 1,473,543
—, catalyst made with, 1,473,543
Beryllium oxide, abrasive made with, 1,234,905
—, aluminum oxide, alloy of aluminum and beryllium from, 1,254,987
—, ammonium catalyst for the mfr. of made with, 1,148,570; 1,152,930; 1,491,588
—, beryllium from, 1,254,987; 1,427,919
—, catalyst, dehydrogenation, made with, 1,271,013
—, —, hydrogenation, made with, 1,271,013
—, —, for the mfr. of, ammonia made with, 1,148,570; 1,152,930; 1,491,588
—, —, for the mfr. of hydrogen, made with, 1,330,772
—, catalyst promoter, 1,271,013
—, —, ammonia made with, 1,148,570; 1,152,930
—, cement contg., 1,450,467
—, crucible made with, 1,157,662
—, dental cement constituent, 1,408,960
—, hydrogen, catalyst for the mfr. of, made with, 1,330,772
—, mfr. of, 1,418,527
—, —, alkali carbonate for, 1,216,980; 1,216,981
—, —, alkali hydroxide for, 1,216,980; 1,216,981
—, —, beryllium aluminates for, 1,216,980; 1,216,981
—, —, beryllium mineral for, 1,216,980; 1,216,981
—, —, beryllium salt for, 1,216,980; 1,216,981
—, —, beryllium silicates for, 1,216,980; 1,216,981
—, —, hydrochloric acid for, 1,216,980; 1,216,981
—, —, process for, 1,216,980; 1,216,981
—, —, sodium bisulfate for, 1,216,980; 1,216,981
—, —, sulfuric acid for, 1,216,980; 1,216,981
—, —, zirconium mineral for, 1,216,980; 1,216,981
—, paint made with, 1,216,980; 1,216,981
—, pigment made with, 1,216,980; 1,216,981
—, porcelain made with, 1,343,040
—, reduction of, apparatus for, 1,512,271
—, —, carbon for, 1,512,271
—, —, coke for, 1,512,271
—, —, hydrogen for, 1,512,271
—, —, pitch for, 1,512,271
—, —, process for, 1,512,271
—, —, rutile for, 1,512,271
—, —, silica for, 1,512,271
—, —, titanium dioxide for, 1,512,271
—, refractory made with, 1,157,662
Beryllium oxide, tantalum, tungsten alloy contg., made with, 1,520,794
—, tungsten alloy, tantalum in, made with, 1,520,794
—, tungsten oxide prevented from off setting by, 1,363,162
Beryllium oxide ore, reduction of, apparatus for, 1,512,271
—, —, carbon for, 1,512,271
—, —, coke for, 1,512,271
—, —, hydrogen for, 1,512,271
—, —, pitch for, 1,512,271
—, —, process for, 1,512,271
—, —, rutile for, 1,512,271
—, —, silica for, 1,512,271
—, —, titanium dioxide for, 1,512,271
Beryllium phenolate, ammonia producing catalyst made with, 1,473,543
—, catalyst made with, 1,473,543
Beryllium phosphate, dental cement contg., 1,408,960
Beryllium salt, beryllium made with, 1,511,829
—, beryllium carbonate made with, 1,216,980; 1,216,981
—, beryllium hydroxide made with, 1,216,980; 1,216,981
—, beryllium oxide made with, 1,216,980; 1,216,981
—, catalyst promoter, ammonia made with, 1,148,570; 1,152,930
—, paint made with, 1,216,980; 1,216,981
—, pigment made with, 1,216,980; 1,216,981
—, zirconium carbonate, basic, made with, 1,216,980; 1,216,981
—, zirconium oxide made with, 1,216,980; 1,216,981
—, zirconium sulfate made with, 1,216,980; 1,216,981
Beryllium silicates, beryllium carbonate made with, 1,216,980; 1,216,981
—, beryllium hydroxide made with, 1,216,980; 1,216,981
—, beryllium oxide made with, 1,216,980; 1,216,981
—, ore contg., treating, 1,418,527
—, paint made with, 1,216,980; 1,216,981
—, pigment made with, 1,216,980; 1,216,981
—, zirconium carbonate, basic, made with, 1,216,980; 1,216,981
—, zirconium oxide made with, 1,216,980; 1,216,981
—, zirconium sulfate made with, 1,216,980; 1,216,981
—, *see also Beryl*
Beryllium silicide, beryllium chloride from, 1,418,527
—, formation of, 1,418,527
Beryllium sodium fluoride, beryllium, magnesium alloy contg., made with, 1,515,082
—, magnesium alloy, beryllium in, made with, 1,515,082
—, *see also Sodium beryllium fluoride*
Beryllium tartrate, ammonia producing catalyst made with, 1,473,543
—, catalyst made with, 1,473,543
Beryllium tungstate, dental cement contg., 1,408,960

Beryllonite, see Sodium beryllium phosphate
Berzelianite, see Copper selenide
Besk, shoe filler made with, 1,203,435
—, *see also Almadeina, Balata; Chicle; Dead Borneo; Gutta Jelutong; Gutta Percha; Pontianak; Rubber; Tuna*
Betacaine, see Eucaine
Bectacaine lactate, see Benzamine lactate
Beta-compounds, see B-compounds
Beta-eucaine, see Eucaine
Beta fat, refuse of cotton seed oil, lard and fatty acids, 1,434,304
—, wormproof anti-fouling paint contg., 1,434,304
Betaform, see Noviform
Betaine, vinasse, extraction from of, alcohol for, 1,219,226
—, —, —, hydriodic acid for, 1,219,226
—, —, —, hydrobromic acid acid for, 1,219,226
—, —, —, hydrochloric acid for, 1,219,226
—, —, —, methyl alcohol for, 1,219,226
—, —, —, process for, 1,219,226
Betaine, see also Trimethyl-glycine
Betaine hydriodide, mfr. of, hydriodide acid for, 1,219,226
—, —, process for, 1,219,226
—, —, vinasse for, 1,219,226
Betaine hydrobromide, mfr. of, hydrobromic acid for, 1,219,226
—, —, process for, 1,219,226
—, —, vinasse for, 1,219,226
Betaine hydrochloride, mfr. of, hydrochloric acid for, 1,219,226
—, —, methyl alcohol for, 1,219,226
—, —, process for, 1,219,226
—, —, vinasse for, 1,219,226
Beta-naphthol, see b-Naphthol; 2-Naphthol
Beta-naphthol sodium, see Microcidin
Betane, silk treated with, 1,318,339
Beta-ray, aluminum as filter to remove from gamma ray of, 1,288,048
—, lead as filter to remove from gamma ray of, 1,288,048
—, platinum as filter to remove from gamma ray of, 1,288,048
—, rubber as filter to remove from gamma ray of, 1,288,048
—, silver as filter to remove from gamma ray of, 1,288,048
Betol, see b-Naphthol salicylate
Beton blocks, mfr. of, aluminum oxide for, 1,183,255
—, —, calcium oxide for, 1,183,255
—, —, cement, Portland, for, 1,183,255
—, —, ilmenite for, 1,183,255
—, —, magnesium oxide for, 1,183,255
—, —, process for, 1,183,255
—, —, silicon dioxide for, 1,183,255
"Betuladerma," mfr. of, birch bark for, 1,228,848
—, —, canvas for, 1,228,848
—, —, cotton fabric for, 1,228,848
—, —, process for, 1,228,848
Beurre de zinc, see Zinc chloride
Beverage, alcohol-free, mfr. of, 1,337,850
—, alcoholic, aging of, apparatus for, 1,130,400
—, —, —, process for, 1,130,400
—, —, —, ultra-violet ray for, 1,130,400
Beverage, alcoholic, barrel for, treatment of, 1,179,983
—, —, enzymes in, 1,412,378
—, carbonates, electrical process for, producing, 1,338,352
—, —, mfr. of, apparatus for, 1,243,068
—, —, —, carbohydrates for, 1,237,723
—, —, —, dextrin for, 1,237,723
—, —, —, dextrose for, 1,237,723
—, —, —, gelatin for, 1,237,723
—, —, —, honey for, 1,237,723
—, —, —, hops for, 1,237,723
—, —, —, levulose for, 1,237,723
—, —, —, maltose for, 1,237,723
—, —, —, peptones for, 1,237,723
—, —, —, phosphates for, 1,237,723
—, —, —, phosphoric acid for, 1,237,723
—, —, —, polypeptone for, 1,237,723
—, —, —, process for, 1,237,723; 1,243,068
—, —, —, sugar for, 1,237,723
—, —, —, yeast for, 1,237,723
—, —, preserving, 1,361,498
—, carbonating, carbon dioxide snow for, 1,421,176
—, —, process for, 1,215,864
—, carbon dioxide in, 1,390,710
—, cereal (coffee substitute), 1,414,557
—, cereal, mfr. of, 1,390,711; 1,421,737
—, cooling, carbon dioxide snow for, 1,421,176
—, de-alcoholized, mfr. of, 1,337,850; 1,343,587; 1,390,710; 1,401,700; 1,455,397
—, —, —, apparatus for, 1,201,873; 1,243,811; 1,277,931; 1,286,315
—, —, —, barley malt for, 1,146,171
—, —, —, calcium lacto-phosphate for, 1,146,171
—, —, —, carbon dioxide for, 1,146,171
—, —, —, citric acid for, 1,146,171
—, —, —, dextrin for, 1,146,171
—, —, —, diastase for, 1,146,171
—, —, —, enzyme for, 1,146,171
—, —, —, hops for, 1,146,171
—, —, —, iron, peptonized, for, 1,146,171
—, —, —, iron pyrophosphate for, 1,146,171
—, —, —, malt for, 1,146,171
—, —, —, maltose for, 1,146,171
—, —, —, peptase for, 1,146,171
—, —, —, potassium phosphate for, 1,146,171
—, —, —, process for, 1,146,171; 1,201,873; 1,243,811
—, —, —, rice for, 1,146,171
—, —, —, yeast for, 1,146,171
—, —, *see also Beer, dealcoholized*
—, dealcoholizing, 1,426,066; 1,441,726
—, desiccated, mfr. of, apparatus for, 1,512,730; 1,512,731
—, —, —, butter fat for, 1,512,730; 1,512,731
—, —, —, chocolate for, 1,512,730; 1,512,731
—, —, —, coffee bean extract for, 1,512,730; 1,512,731
—, —, —, coffee substitute extract for, 1,512,730; 1,512,731
—, —, —, fruit juice for, 1,512,730; 1,512,731
—, —, —, glucose for, 1,512,730; 1,512,731
—, —, —, grape juice for, 1,512,730; 1,512,731
—, —, —, lemon juice for, 1,512,730; 1,512,731
—, —, —, lemon oil for, 1,512,730; 1,512,731
—, —, —, maple sugar for, 1,512,730; 1,512,731

Beverage, desiccated, mfr. of, medicinal plant extracts for, 1,512,730; 1,512,731
—, —, —, milk solids for, 1,512,730; 1,512,731
—, —, —, molasses for, 1,512,730; 1,512,731
—, —, —, orange juice for, 1,512,730; 1,512,731
—, —, —, orange oil for, 1,512,730; 1,512,731
—, —, —, pineapple juice for, 1,512,730; 1,512,731
—, —, —, process for, 1,512,730; 1,512,731
—, —, —, raspberry juice for, 1,512,730; 1,512,731
—, —, —, sugar for, 1,512,730; 1,512,731
—, —, —, sugar, cane, for, 1,512,730; 1,512,731
—, —, —, tea extract for, 1,512,730; 1,512,731
—, —, —, vanilla essence for, 1,512,730; 1,512,731
—, dry extract of partly fermented, mfr. of, process for, 1,275,254
—, ethyl alcohol made with, 1,311,421
—, fermented, cocoa for producing, 1,376,870
—, —, coffee for producing, 1,376,870
—, —, dealcoholizing, carbon dioxide for, 1,333,457
—, —, —, inert gases for, 1,333,457
—, —, mfr. of, apparatus for, 1,395,753
—, flavoring for, hop extract as, 1,464,520
—, fruit (coffee substitute), 1,414,557
—, iron in, mfr. of, carbohydrate for, 1,129,306; 1,129,307
—, —, —, iron electrode for, 1,129,306; 1,129,307
—, —, —, process for, 1,129,306; 1,129,307
—, —, —, saccharose for, 1,129,306; 1,129,307
—, low-alcoholic, mfr. of, 1,441,726
—, *malt, see Beer, dealcoholized*
—, mfr. of, acacia for, 1,500,670
—, —, acetic acid for, 1,164,193
—, —, albumen for, 1,500,670
—, —, albumen, egg, for, 1,141,816
—, —, alcohol for, 1,250,095; 1,500,670
—, —, algaroba for, 1,141,816; 1,519,789
—, —, aloes for, 1,280,150
—, —, ammonium caseinate for, 1,214,518
—, —, ammonium phosphate for, 1,214,518
—, —, anethole for, 1,519,789
—, —, anise oil for, 1,519,789
—, —, anise spirits for, 1,519,789
—, —, apparatus for, 1,311,251; 1,504,459
—, —, apple juice for, 1,194,230; 1,250,095
—, —, arrowroot starch for, 1,214,518
—, —, bacterial, *B. acidophilus* for, 1,506,501
—, —, —, *B. bulgaricus*, for, 1,506,501
—, —, —, *B. Delbruecki*, for, 1,249,259
—, —, —, lactic acid, for, 1,191,440
—, —, banana for, 1,214,518
—, —, barley for, 1,214,518; 1,237,724
—, —, barley malt for, 1,164,287; 1,240,016
—, —, barley malt flour, dextrinized, for, 1,326,751
—, —, beer, spent, for, 1,149,700
—, —, beer wort for, 1,229,656
—, —, benzoin for, 1,500,670
—, —, blackberry juice for, 1,194,230
—, —, bran for, 1,237,724; 1,249,259; 1,276,298; 1,310,277; 1,326,751
—, —, bromelin for, 1,235,881; 1,235,882
—, —, butter fat for, 1,249,044
—, —, cacao bean for, 1,276,298
—, —, caffein for, 1,229,656
—, —, calcium acetate for, 1,229,656
Beverage, mfr. of, calcium chloride for, 1,500,670
—, —, calcium lactophosphate for, 1,164,287
—, —, calcium salt for, 1,500,670
—, —, capsicum for, 1,229,656
—, —, carbon dioxide for, 1,229,656; 1,249,259; 1,250,095; 1,500,670
—, —, casein for, 1,235,881; 1,235,882
—, —, casein, salt of, for, 1,214,518
—, —, cassava starch for, 1,214,518
—, —, cereal for, 1,164,193; 1,164,287; 1,194,230; 1,214,518; 1,311,251
—, —, cereal extract for, 1,276,298
—, —, *Ceretonia siliqua* fruit for, 1,519,789
—, —, chia seed for, 1,244,521
—, —, chicory for, 1,310,277
—, —, chicory compound and coffee for, 1,147,888; 1,150,303
—, —, chocolate for, 1,194,230; 1,276,298; 1,504,459
—, —, citric acid for, 1,164,287; 1,250,095; 1,280,150; 1,500,670
—, —, citrus fruit for, 1,479,329
—, —, citrus fruit oil for, 1,500,670
—, —, citrus fruit oil terpenes for, 1,500,670
—, —, citrus fruit peel for, 1,479,329
—, —, cocoa for, 1,276,298; 1,495,623; 1,495,624
—, —, cocoa powder for, 1,504,459
—, —, coffee for, 1,161,925; 1,504,459
—, —, coffee and chicory compound for, 1,147,888; 1.150.303
—, —, corn for, 1,164,287; 1,214,518; 1,237,724
—, —, corn grits for, 1,194,230 1,214,518
—, —, corn starch for, 1,249,259; 1,250,095
—, —, cotton seed for, 1,230,184
—, —, cream for, 1,141,816
—, —, dextrin for, 1,164,193; 1,218,190; 1,250,095; 1,326,751
—, —, diastase for, 1,249,259
—, —, egg for, 1,218,190; 1,504,459
—, —, egg albumin for, 1,218,190
—, —, egg yolk for, 1,218,190
—, —, emulsion, turbid, for, 1,500,670
—, —, enzyme, maltase, for, 1,164,193
—, —, —, proteolytic, for, 1,218,190; 1,235,881; 1,235,882; 1,240,016
—, —, ethyl acetate for, 1,164,193
—, —, ethyl alcohol for, 1,194,230
—, —, figs for, 1,218,914; 1,230,184; 1,326,751
—, —, fruit for, 1,250,095; 1,311,251
—, —, fruit juice for, 1,194,230
—, —, gelatin for, 1,500,670
—, —, gentian for, 1,280,150
—, —, ginger root for, 1,149,700
—, —, glucose for, 1,280,150; 1,326,751
—, —, glycerol for, 1,500,670
—, —, grain for, 1,276,298
—, —, grain, malted, for, 1,240,016
—, —, grapes for, 1,250,095
—, —, grape juice for, 1,194,230
—, —, grits for, 1,164,193; 1,164,287; 1,237,724
—, —, honey locust fruit for, 1,519,789
—, —, hops for, 1,149,700; 1,164,193; 1,164,287; 1,181,213; 1,181,770; 1,218,190; 1,226,439; 1,229,656; 1,235,881; 1,235,882; 1,240,016; 1,249,259; 1,280,150
—, —, hops, Alsatian, for, 1,249,259
—, —, —, American West Coast, for, 1,249,259

Beverage, mfr. of, hops, Bavarian, for, 1,249,259
—, —, —, Bohemian, for, 1,249,259
—, —, —, English for, 1,249,259
—, —, —, European, for, 1,249,259
—, —, —, New York State, for, 1,249,259
—, —, hop blossoms for, 1,218,190
—, —, hop oil for, 1,250,095
—, —, huckleberry juice for, 1,194,230
—, —, hydrochloric acid for, 1,164,193; 1,214,518
—, —, hydrogen for, 1,500,670
—, —, Irish moss for, 1,218,190
—, —, iron hydroxide for, 1,500,670
—, —, iron(ic) hydroxide for, 1,171,739
—, —, iron peptonized for, 1,164,287
—, —, iron pyrophosphate for, 1,164,287
—, —, iron(ic) saccharate for, 1,171,739
—, —, lactic acid for, 1,164,193; 1,181,770; 1,191,440; 1,214,518; 1,479,329
—, —, lautermash for, 1,164,193; 1,164,287
—, —, lemon juice for, 1,226,439
—, —, lemon oil for, 1,500,670
—, —, lime for, 1,218,914
—, —, lime oil for, 1,500,670
—, —, magnesium acetate for, 1,229,656
—, —, magnesium carbonate for, 1,500,670
—, —, malic acid for, 1,250,095
—, —, malt for, 1,164,193; 1,164,287; 1,194,230; 1,235,881; 1,235,882; 1,237,724; 1,250,095
—, —, malt, low-alcoholic, for, 1,328,888
—, —, malt extract for, 1,240,016
—, —, maltose for, 1,164,193; 1,250,095
—, —, maple sugar for, 1,504,459
—, —, material for, producing, 1,391,557
—, —, "Mazam" for, 1,249,259
—, —, mesquite for, 1,141,816; 1,519,789
—, —, middlings for, 1,237,724
—, —, milk for, 1,141,816; 1,249,044; 1,495,623; 1,495,624; 1,504,459; 1,506,501
—, —, milk, skim, for, 1,495,623; 1,495,624
—, —, molasses for, 1,181,213; 1,280,150
—, —, molasses, New Orleans, for, 1,326,751
—, —, must for, 1,250,095
—, —, mustard seed for, 1,229,656
—, —, nitrogen for, 1,500,670
—, —, "Nulomoline T. P." for, 1,500,670
—, —, nuts for, 1,194,230
—, —, nut product for, 1,276,298
—, —, oats for, 1,214,518
—, —, oleic acid for, 1,500,670
—, —, oleic acid, sulfuric acid derivatives of, for, 1,500,670
—, —, orange for, 1,479,329
—, —, orange, Spanish bitter-, rinds of, for, 1,280,150
—, —, orange oil for, 1,500,670
—, —, orange peel for, 1,479,329
—, —, papain for, 1,235,881; 1,235,882; 1,240,016
—, —, peach, dried, for, 1,161,925
—, —, peach juice for, 1,194,230
—, —, peanut for, 1,181,213; 1,276,298
—, —, pear juice for, 1,194,230
—, —, peas for, 1,276,298
—, —, pepsin for, 1,218,190; 1,235,881; 1,235,882; 1,240,016
—, —, peptase for, 1,235,881; 1,235,882
—, —, peptide for, 1,500,670
Beverage mfr. of, peptones for, 1,250,095; 1,500,670
—, —, phosphoric acid for, 1,164,193
—, —, plants for, 1,311,251
—, —, polyglycerol for, 1,500,670
—, —, potassium acetate for, 1,229,656
—, —, potassium bicarbonate for, 1,500,670
—, —, potassium bitartrate for, 1,250,095
—, —, potassium caseinate for, 1,214,518
—, —, potato starch for, 1,214,518; 1,249,259
—, —, process for, 1,128,628; 1,141,816; 1,149,700; 1,161,925; 1,164,193; 1,164,287; 1,171,739; 1,181,213; 1,181,770; 1,191,440; 1,194,230; 1,214,518; 1,218,190; 1,218,914; 1,226,439; 1,228,917; 1,229,656; 1,230,184; 1,235,881; 1,235,882; 1,237,724; 1,240,016; 1,249,044; 1,249,259; 1,250,095; 1,276,298; 1,280,150; 1,311,251; 1,326,751; 1,479,329; 1,495,623; 1,495,624; 1,500,670; 1,504,459; 1,506,501; 1,519,789
—, —, protein for, 1,235,881; 1,235,882
—, —, prunes for, 1,230,184; 1,326,751
—, —, raspberry juice for, 1,194,230
—, —, rice for, 1,164,193; 1,164,287; 1,194,230; 1,214,518; 1,237,724
—, —, rice starch for, 1,249,259
—, —, root for, 1,214,518
—, —, rose essence for, 1,218,914
—, —, rye for, 1,181,213; 1,214,518; 1,230,184
—, —, rye flour for, 1,236,439
—, —, rye middlings for, 1,326,751
—, —, *saccharomyces cerevisia* for, 1,250,095
—, —, *saccharomyces ellipsoideous* for, 1,250,095
—, —, sago starch for, 1,214,518
—, —, soap for, 1,500,670
—, —, sodium acetate for, 1,164,193; 1,229,656
—, —, sodium carbonate for, 1,164,193
—, —, sodium caseinate for, 1,214,518
—, —, sodium chloride for, 1,181,770; 1,218,190; 1,218,914; 1,249,259
—, —, sodium lactate for, 1,164,193
—, —, sodium oleate for, 1,500,670
—, —, sodium phosphate for, 1,500,670
—, —, starch for, 1,164,193; 1,214,518; 1,235,881; 1,235,882; 1,249,259; 1,250,095; 1,504,459
—, —, starch, dextrinized, for, 1,326,751
—, —, stearic acid for, 1,500,670
—, —, strawberry juice for, 1,194,230
—, —, succinic acid for, 1,164,193
—, —, sugar for, 1,141,816; 1,171,739; 1,218,190; 1,226,439; 1,240,016; 1,249,044; 1,280,150; 1,326,751; 1,479,329; 1,495,623; 1,495,624; 1,504,459
—, —, sugar, brewing, for, 1,181,770
—, —, —, brown, for, 1,310,277
—, —, —, cane, for, 1,191,440; 1,326,751
—, —, —, —, invert, syrup, for, 1,500,670
—, —, —, invert, for, 1,191,440
—, —, —, milk, for, 1,249,044
—, —, sugar syrup for, 1,500,670
—, —, sulfuric acid for, 1,164,193
—, —, syrup for, 1,218,190
—, —, tartaric acid for, 1,181,770; 1,218,190; 1,250,095
—, —, thein for, 1,229,656
—, —, theobromin for, 1,229,656
—, —, tragacanth for, 1,181,770

Beverage, mfr. of, tuber for, 1,214,518; 1,311,251
—, —, vegetable product for, 1,276,298
—, —, violet essence for, 1,218,914
—, —, water for, 1,495,623; 1,495,624
—, —, wheat for, 1,214,518; 1,230,184; 1,269,100; 1,276,298
—, —, wheat bran for, 1,249,259; 1,326,751
—, —, wheat flour for, 1,194,230
—, —, wheat flour, dextrinized, for, 1,326,751
—, —, whey for, 1,191,440
—, —, worm-wood, American, for, 1,280,150
—, —, wort for, 1,164,193
—, —, wort extract for, 1,194,230
—, —, yeast for, 1,164,193; 1,164,287; 1,181,770; 1,226,439; 1,249,259; 1,280,150; 1,311,251
—, —, yeast extract for, 1,164,193
—, —, "yeast water" for, 1,214,518
—, non-alcoholic, formic, acetic and propionic acids added to, 1,401,700
—, —, mfr. of, 1,337,027; 1,337,850; 1,441,726; 1,461,808
—, —, —, bran for, 1,262,472
—, —, —, brewers extract for, 1,262,472
—, —, —, burtonizing salts for, 1,262,472
—, —, —, caramel for, 1,262,472
—, —, —, diastase for, 1,262,472
—, —, —, glucose for, 1,262,472
—, —, —, hops for, 1,262,472
—, —, —, isinglass for, 1,262,472
—, —, —, peptase for, 1,262,472
—, —, —, process for, 1,262,472
—, —, —, sodium chloride for, 1,262,472
—, —, —, sugar for, 1,262,472
—, —, —, vinegar for, 1,262,472
—, —, *see also Beer, dealcoholized*
—, non-intoxicating, formula for, ash-tree leaves 500 gm., sugar 1500 gm., tartaric acid 80 gm., chicory 120 gm., yeast 125 gm., water 100 qts., 1,291,219
—, —, mfr. of, 1,338,803
—, preparing, enzymes used in, 1,441,726
—, sterilization of, acid for, 1,140,717
—, —, alkali dioxide for, 1,140,717
—, —, alkali earth dioxide for, 1,140,717
—, —, apparatus for, 1,141,056
—, —, carbon dioxide for, 1,140,717; 1,141,056
—, —, citric acid for, 1,140,717
—, —, hydrogen dioxide for, 1,140,717; 1,497,657
—, —, phosphoric acid for, 1,140,717
—, —, potassium dioxide for, 1,140,717
—, —, process for, 1,140,717; 1,141,056; 1,497,657
—, —, sodium dioxide for, 1,140,717
—, —, sulfuric acid for, 1,140,717
—, —, ultra-violet ray for, 1,141,056
—, unfermented, mfr. of, bacteria, lactic acid, for, 1,204,869
—, —, — bacteria, *Saccharobacillus Pastorianus*, for, 1,204,869
—, —, —, bran for, 1,204,869
—, —, —, Burton salt for, 1,204,869
—, —, —, carbon dioxide for, 1,204,869
—, —, —, dextrin for, 1,204,869
—, —, —, dextrose for, 1,204,869
—, —, —, galactose for, 1,204,869
—, —, —, gluten for, 1,204,869
—, —, —, grain for, 1,204,869
Beverage, unfermented, mfr. of, hops for, 1,204,869
—, —; —, lactic acid for, 1,204,869
—, —, —, levulose for, 1,204,869
—, —, —, malt for, 1,204,869
—, —, —, maltose for, 1,204,869
—, —, —, potassium carbonate for, 1,204,869
—, —, —, potassium lactate for, 1,204,869
—, —, —, process for, 1,204,869
—, —, —, saccharose for, 1,204,869
—, —, —, sugar, corn, for, 1,204,869
—, *see also Ale; Beer; Coffee; Coffee substitute; Food product; Tea; Tea substitute*
Beverage clarifier, mfr. of, albumen for, 1,239,930
—, —, cellulose for, 1,239,930
—, —, clay, pipe, for, 1,239,930
—, —, egg shell for, 1,239,930
—, —, egg white for, 1,239,930
—, —, gelatin for, 1,239,930
—, —, maple wood for, 1,239,930
—, —, paper pulp for, 1,239,930
—, —, process for, 1,239,930; 1,247,678
—, —, sugar for, 1,239,930
—, —, wood for, 1,239,930
Beverage extract, mfr. of, 1,366,495
—, —, bran for, 1,366,495
—, —, chloroform for, 1,189,127
—, —, grape for, 1,189,127
—, —, lime for, 1,189,127
—, —, milk for, 1,384,894
—, —, molasses for, 1,366,495
—, —, orange for, 1,189,127
—, —, pineapple for, 1,189,127
—, —, process for, 1,189,127
—, —, wheat for, 1,366,495
—, *see also Coffee substitute; Coffee substitute extract*
—, (solid), mfr. of, cereals for, 1,338,231
Beverage material, mfr. of, oats for, 1,384,894
—, (dry), preparing, oats and milk for, 1,384,894
Beverage receptacle, mfr. of, citric acid for, 1,247,678
—, —, cocoanut oil for, 1,247,678
—, —, flour for, 1,247,678
—, —, milk for, 1,247,678
—, —, saccharin for, 1,247,678
—, —, sugar for, 1,247,678
—, —, tartaric acid for, 1,247,678
—, —, yeast for, 1,247,678
Bezotrichloride, mfr. of, process for, 1,306,221
Bezoquinone, see Benzo-quinone
Δ8.8′-Bi-(7-acenaphthenone), acenaphthene in mfr. of, 1,439,500
—, aluminum as catalyst in mfr. of, 1,439,500
—, catalyst in mfr. of, 1,439,500
—, cobalt as catalyst in mfr. of, 1,439,500
—, iron as catalyst in mfr. of, 1,439,500
—, mfr. of, acenaphthene for, 1,439,500
—, —, air for, 1,439,500
—, —, process for, 1,439,500
—, —, vanadium oxide as catalyst for, 1,439,500
—, metallic oxide as catalyst in mfr. of, 1,439,500
—, nickel as catalyst in mfr. of, 1,439,500
—, vanadium oxide as catalyst in mfr. of, 1,439,500

Biacenaphthylidene, see Δ8.8'-Biacenaphthene
Biacenaphthylidene-diketone, see Δ8.8'-Bi(7-acenaphthenone)
Biacetylene, isoprene made with, 1,218,332
—, rubber, synthetic, made with, 1,218,332
p.p'-Bianiline, see Benzidine
Bianisidine, aniline black made with, 1,277,056; Re-14,824; 1,350,600
—, aniline black dyeing with, 1,277,056; Re-14,824
—, checks, writing of, using, 1,514,222
—, color lake made with, 1,157,525
—, 4.4'-diamino-*m.m'*-biphenol made with, 1,210,751
—, diazo derivative of, dyestuff made with, 1,292,385
—, documents, printing of, using, 1,514,222
—, dyestuff made with, 1,125,050; 1,145,072; 1,160,406; 1,169,267; 1,183,378; 1,188,545; 1,210,751; 1,215,359; 1,277,056; Re-14,824; 1,282,355; 1,282,356; 1,286,411; 1,350,600; 1,457,114; 1,505,568; 1,505,569; 1,506,514
—, ink, printing, made with, 1,157,525
—, nitrosamine of, nitrosamine dyes printed with, 1,426,299
—, paint made with, 1,157,525
—, paper, safety, made with, 1,509,872
—, pigment made with, 1,157,525
—, printing with oleic acid solution of, 1,462,613
—, solvent for, oleic acid as, 1,462,613
4.4-Bi-*o*-anisidine, nitrosamines made with, 1,200,726
—, tetrazotized, nitrosamines made with, 1,200,726
Bianisidine blue, formation of, 1,462,613
Bianisidinedihydrochloride, aniline black made with, 1,350,600
—, photography, color, using, 1,279,248
Biaxial mica, see Muscovite
Biaxial mica, see Muscovite
Bibarytic silicate, see Barium silicate
o.o'-Bibenzoic acid, see Diphenic acid
Bibenzyl, benzaldehyde made with, 1,502,941
—, benzoic acid made with, 1,502,941
—, oxidation of, chromic acid for, 1,502,941
—, —, oxygen for, 1,502,941
—, —, permanganates for, 1,502,941
—, —, process for, 1,502,941
Biberite, see Cobaltous sulfate
Biborate, fireproofing using, 1,216,729
—, oak, red, fireproofing of, using, 1,216,729
—, pine, fireproofing of, using, 1,216,729
—, wood, fireproofing of, using, 1,216,729
Bibulous material, see Porous material
Bicarbonate, acetyl-salicylic acid, product contg., made with, 1,486,373
—, alkali borate, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, alkali borosilicate, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, alkali earth borate, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, alkali earth borosilicate, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, ammonia made with, 1,483,413
Bicarbonate, ammonia made with gases purified using compound made with, 1,483,413
—, antiseptic made with, 1,493,564
—, baking powder made with, 1,134,956; 1,228,252; 1,286,145
—, borax ore, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, calcium borate, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, calcium borosilicate, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, chlorhydrins made with, 1,465,601; 1,498,781; 1,498,782
—, colemanite, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, danburite, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, dinitroglycol purified with, 1,426,313
—, effervescent compound made with, 1,228,252
—, factory effluent, treatment of, using, 1,505,104
—, formates made with, 1,204,933
—, formic acid made with, 1,204,933
—, germicide made with, 1,493,564
—, glycols made with, 1,498,781; 1,498,782
—, howlite, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, hydroxy-alkylamine made with, 1,498,781; 1,498,782
—, hypochlorous acid made with, 1,498,781; 1,498,782
—, insulation, heat, made with, 1,245,723
—, mfr. of, apparatus for, 1,141,266
—, —, blast furnace gas for, 1,141,266
—, —, process for, 1,141,266
—, pandermite, treatment of with, 1,259,717; 1,259,718; 1,259,719
—, sewage, treatment of, using, 1,505,104
—, slaughter house effluent, treatment of, using, 1,505,104
—, sodium cresylate acidulated with, 1,445,668
—, sugar juice, defecating of using, 1,486,091
—, 3.5.3'.5'-tetramino-4.4'-di(methylamino)-arsenobenzene, action on of, 1,265,864; 1,265,865
—, therapeutic product made with, 1,486,373
—, water, treatment of, using, 1,505,104
—, water contg., removal from of, process for, 1,139,378
Bicarbonate of soda, see Sodium bicarbonate
Bichloride of mercury, see Mercury(ic) chloride
Bichromates, aniline black dyeing with, 1,374,122
—, antifreeze mixture contg., 1,405,320
—, battery, primary, made with, 1,201,481
—, brass, pickling of using, 1,206,220
—, carbon dioxide purified using, 1,519,932
—, catalyst, for the mfr. of, sulfur trioxide, made with, 1,204,143
—, cellulose treated with, cellulose ether made with, 1,188,376
—, —, ethyl cellulose made with, 1,188,376
—, —, methyl cellulose made with, 1,188,376
—, chromium oxide made with, 1,429,912
—, chromium sulfate made with, 1,330,131; 1,379,578
—, copper alloy, pickling of using, 1,206,220

Bichromates, copper pickling of using, 1,206,220
—, dye, logwood, application of using, 1,254,914
—, —, vegetable, application of using, 1,254,914
—, dyeing process, using, 1,207,414
—, dyestuff, printing paste for contg., 1,126,387
—, dyestuffs developed with, 1,426,299
—, etching, film, photographic, treatment of for, made with, 1,256,981
—, fabric, dyed, finishing of, using, 1,207,414
—, film, motion picture, made with, 1,361,783
—, —, —, colored made with, 1,188,939; 1,245,822; 1,281,714; 1,303,836
—, —, photographic, made with, 1,240,344
—, —, photographic, varying porosity of made, with, 1,256,981
—, gelatin sensitized with, 1,371,157; 1,430,059; 1,430,060; 1,430,061
—, glass made with, 1,403,752
—, glass, reinforced, made with, 1,228,165
—, lamp, electric, tungsten filament, made with, 1,240,700
—, lead chromate made with, 1,225,374
—, lithographic plate made with, 1,155,352
—, mfr. of, chromite for, 1,239,885
—, —, chromium ore for, 1,239,885
—, —, hydrochloric acid for, 1,239,885
—, —, process for, 1,239,885; 1,429,001
—, nickel made with, 1,193,734
—, nickel oxide made with, 1,193,734
—, nickel sulfide made with, 1,193,734
—, photoengraving process using, 1,285,015
—, photographic paper developed with, 1,444,469
—, photographic print, color, made with, 1,263,962
—, picture, film, photographic, treatment of for, made with, 1,256,981
—, plate, photographic, made with, 1,285,015
—, printing plate made with, 1,243,431; 1,496,268
—, printing plate, lithographic, made with, 1,203,770
—, —, mfr. of, negative for, made with, 1,484,347
—, rust-resistant coating produced with, 1,440,092
—, saccharin made with, 1,366,349; 1,507,565
—, sulfur trioxide, catalyst for the mfr. of, made with, 1,204,143
—, wood preservative contg., 1,265,370
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Bichromate of potash, see Potassium bichromate
Bichromate of soda, see Sodium bichromate
Bidesyl, see Diphenyl-diphenylethylene-diketone
Bidextrotartrate, see Bi-d-tartrate
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—, dye made with, 1,173,330
—, fabric, printing composition for, made with, 1,164,036; 1,164,037; 1,173,330
—, paint made with, 1,164,036; 1,164,037; 1,173,330
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Biguanide nitrate, explosive contg., 1,409,963
—, formation of, 1,440,063
—, nitrobiguanide from, sulfuric acid for preparing, 1,409,963
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—, —, nickel as catalyst for, 1,239,867
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—, —, aldehyde for, 1,482,358
—, —, alkali hydroxide for, 1,482,358
—, —, aluminum oxychloride for, 1,175,425
—, —, apparatus for, 1,240,438
—, —, asbestos for, 1,482,358
—, —, barite for, 1,482,358
—, —, barium hydroxide for, 1,482,358
—, —, barium oxychloride for, 1,175,425
—, —, *a*-bis(hydroxymethyl)-urea for, 1,482,358
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—, —, casein composition for, 1,437,487
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—, —, celluloid for, 1,240,438
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—, —, cotton flock for, 1,482,358
—, —, cotton seed oil, ultra-violet ray treated, for, 1,179,414
—, —, fish oil, ultra-violet ray treated, for, 1,179,414
—, —, formaldehyde for, 1,482,358
—, —, gutta percha for, 1,240,438
—, —, gypsum for, 1,482,358

Billiard ball, mfr. of, hydrochloric acid for, 1,482,358
—, —, hydroxymethyl-urea for, 1,482,358
—, —, ivory, imitation, for, 1,240,438
—, —, kaolin for, 1,175,425
—, —, lard fat, ultra-violet ray treated, for, 1,179,414
—, —, lard oil, ultra-violet ray treated, for, 1,179,414
—, —, linseed oil, ultra-violet ray treated, for, 1,179,414
—, —, lithopone for, 1,482,358
—, —, magnesium chloride for, 1,175,425
—, —, magnesium oxide for, 1,175,425
—, —, magnesium oxychloride for, 1,175,425
—, —, metal chloride for, 1,175,425
—, —, metal oxide for, 1,175,425
—, —, metal oxychloride for, 1,175,425
—, —, mustard oil, ultra-violet ray treated, for, 1,179,414
—, —, oil, animal, ultra-violet ray treated, for, 1,179,414
—, —, —, marine animal, ultra-violet ray treated, for, 1,179,414
—, —, —, vegetable, ultra-violet ray treated, for, 1,179,414
—, —, oxalic acid for, 1,482,358
—, —, paraformaldehyde for, 1,483,358
—, —, peanut oil, ultra-violet ray treated, for, 1,179,414
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—, —, phosphoric acid for, 1,482,358
—, —, plaster of Paris for, 1,482,358
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—, —, resin, ultra-violet ray treated, for, 1,179,414
—, —, resin oil, ultra-violet ray treated, for, 1,179,414
—, —, rubber for, 1,240,438
—, —, rubber cement for, 1,240,438
—, —, rubber composition for, 1,437,487
—, —, silica for, 1,175,425
—, —, silk flock for, 1,482,358
—, —, sodium bisulfate for, 1,482,358
—, —, sodium hydroxide for, 1,482,358
—, —, sulfuric acid for, 1,482,358
—, —, tallow fat, ultra-violet ray treated, for, 1,179,414
—, —, tallow oil, ultra-violet ray treated, for, 1,179,414
—, —, tung oil, ultra-violet ray treated, for, 1,179,414
—, —, urea for, 1,482,358
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—, —, "xylose" for, 1,175,425
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—, —, zinc oxychloride for, 1,175,425
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—, —, linen for, 1,189,408
—, —, process for, 1,189,408
—, —, rubber for, 1,189,408
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—, —, wool for, 1,189,408
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—, —, brass for, 1,250,612; 1,250,862
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—, —, process for, 1,250,612; 1,250,862
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—, —, alkali earth hydroxide for, 1,509,035
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—, —, alkali hydroxide for, 1,509,035
—, —, alkali oxide for, 1,509,035
—, —, alkali silicate for, 1,266,618
—, —, aluminum for, 1,409,275
—, —, aluminum silicates for, 1,498,856
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—, —, anisole for, 1,209,333
—, —, apparatus for, 1,242,491
—, —, arrowroot, cucuma starch for, 1,318,106
—, —, —, natal starch, for, 1,318,106
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—, —, arrowroot starch for, 1,318,106
—, —, arum starch for, 1,318,106
—, —, asbestos for, 1,233,101; 1,233,415; 1,233,416; 1,311,220; 1,311,221; 1,311,222; 1,409,275
—, —, asphalt for, 1,221,259
—, —, asphaltene for, 1,233,101
—, —, asphaltic oil in, 1,311,215; 1,311,216; 1,311,219

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—, —, barium dioxide for, 1,233,415; 1,233,416
—, —, barley starch for, 1,318,106
—, —, bean starch for, 1,318,106
—, —, benzaldehyde for, 1,409,275
—, —, benzene for, 1,189,549; 1,209,333; 1,233,415; 1,233,416; 1,431,455
—, —, benzine for, 1,189,549
—, —, bitumen in, 1,311,215; 1,311,216; 1,311,219
—, —, black strap in, 1,311,215; 1,311,216; 1,311,219
—, —, borax for, 1,263,634; 1,263,635; 1,318,106
—, —, boric acid for, 1,266,618
—, —, boron compound for, 1,263,634; 1,263,635
—, —, buckwheat starch for, 1,318,106
—, —, calcium chloride for, 1,266,618; 1,311,215; 1,311,216; 1,311,219
—, —, calcium hydroxide for, 1,133,499; 1,189,549; 1,509,035
—, —, calcium oxide in, 1,311,215; 1,311,216; 1,311,219; 1,409,275
—, —, calcium stearate for, 1,311,215; 1,311,216; 1,311,219
—, mfr. of, canna starch for, 1,318,106
—, —, carbon for, 1,209,692
—, —, carbon bisulfide for, 1,431,455
—, —, carbon black for, 1,431,455
—, —, carbon tetrachloride for, 1,431,455
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—, —, cellulose nitrate for, 1,242,491
—, —, cellulose sulfite liquor for, 1,133,499; 1,201,301; 1,290,118; 1,311,215; 1,311,216; 1,311,217; 1,311,218; 1,311,219; 1,311,220; 1,311,221; 1,311,222; 1,400,164; 1,498,856
—, —, cellulose sulfite liquor, evaporated, for, 1,221,259
—, —, cellulose xanthate for, 1,431,455
—, —, cement, Portland, in, 1,189,549; 1,311,215; 1,311,216; 1,311,219
—, —, chlorine for, 1,318,106
—, —, chrome alum for, 1,189,549
—, —, chromium(ic) oxide for, 1,409,275
—, —, chromium resinate for, 1,189,549
—, —, clay for, 1,498,856
—, —, clay, terra cotta, for, 1,498,856
—, —, clina mica for, 1,409,275
—, —, coal, bituminous, for, 1,221,259
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—, —, coal fines for, 1,311,220; 1,311,221; 1,311,222
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—, —, copper oleate for, 1,189,549
—, —, copper(ic) oxide for, 1,509,035
—, —, cork for, 1,409,275
—, —, corn flour for, 1,318,106
—, —, corn starch for, 1,318,106
—, —, cotton shoddy for, 1,409,275
—, —, creosote for, 1,431,455
—, —, cresol for, 1,209,333
—, —, dari starch for, 1,318,106
—, —, ellagic acid for, 1,247,595
—, —, ether for, 1,409,275
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—, —, flour for, 1,318,106
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—, —, glue for, 1,431,455
—, —, glycerol for, 1,431,455
—, —, graphite for, 1,409,275
—, —, guayule resin for, 1,189,549
—, —, gums for, 1,431,455
—, —, gutta percha for, 1,409,275; 1,431,455
—, —, gypsum for, 1,221,259
—, —, hair for, 1,409,275
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—, —, hydrochloric acid for, 1,318,106
—, —, iron oxide for, 1,498,856
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—, —, iron silicates for, 1,498,856
—, —, japan drier for, 1,189,549
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—, —, *Laminaria Stenophylla* for, 1,509,035
—, —, lampblack for, 1,409,275
—, —, lead, red, for, 1,409,275; 1,431,455
—, —, lead, sublimed, for, 1,189,549
—, —, —, white, for, 1,189,549
—, —, lead carbonate for, 1,409,275
—, —, lead oxide for, 1,509,035
—, —, lead peroxide for, 1,233,415; 1,233,416
—, —, lentil starch for, 1,318,106
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—, —, magnesium chloride in, 1,311,215; 1,311,216; 1,311,219; 1,318,106
—, —, magnesium oxide for, 1,409,275; 1,431,455
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—, —, maranta starch for, 1,318,106
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—, —, oat, starch, for, 1,318,106
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—, —, —, emulsions of, in, 1,311,215; 1,311,216; 1,311,219
—, —, —, mineral, for, 1,189,549; 1,201,301; 1,209,692
—, —, —, vegetable, for, 1,233,415; 1,233,416
—, —, ore for, 1,311,220; 1,311,221; 1,311,222
—, —, pea starch for, 1,318,106
—, —, pepper starch for, 1,318,106
—, —, petrolene for, 1,233,101

Binder, mfr. of, petroleum for, 1,201,301; 1,233,101; 1,311,215; 1,311,216; 1,311,219
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—, —, phenol for, 1,209,333; 1,431,455; 1,509,035
—, —, phenol aldehyde condensate for, 1,409,275
—, —, phenolate for, 1,509,035
—, —, phenyl ether for, 1,209,333
—, —, pigment for, 1,189,549
—, —, pitch for, 1,221,259
—, —, Pontianak resin for, 1,189,549
—, —, potassium carbonate for, 1,509,035
—, —, potassium hydroxide for, 1,201,301; 1,318,106; 1,509,035
—, —, potassium silicates for, 1,498,856
—, —, potato starch for, 1,318,106
—, —, process for, 1,133,499; 1,189,549; 1,201,301; 1,209,333; 1,209,692; 1,221,259; 1,233,101; 1,233,415; 1,233,416; 1,242,491; 1,247,595; 1,263,634; 1,263,635; 1,266,618; 1,318,106; 1,400,164; 1,409,275; 1,431,455; 1,440,356; 1,498,856; 1,509,035
—, —, prolamine for, 1,316,854
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—, —, rice starch for, 1,318,106
—, —, rock oil distillate for, 1,133,499
—, —, rosin for, 1,400,164
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—, —, rubber, Ceylon, for, 1,409,275
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—, —, rye flour for, 1,318,106
—, —, rye starch for, 1,318,106
—, —, sago starch for, 1,318,106
—, —, salicylate for, 1,509,035
—, —, salicylic acid for, 1,509,035
—, —, sand for, 1,311,220; 1,311,221; 1,311,222
—, —, *Sargassum bacciferum* for, 1,509,035
—, —, sawdust for, 1,311,220; 1,311,221; 1,311,222
—, —, seaweed for, 1,509,035
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—, —, sienna, raw, for, 1,409,275
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—, —, silicic acid for, 1,266,618
—, —, slate for, 1,221,259
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—, —, sodium carbonate for, 1,201,301; 1,509,035
—, —, sodium hydroxide for, 1,189,549; 1,201,301; 1,318,106; 1,400,164; 1,509,035
—, —, sodium silicate for, 1,247,595; 1,266,618; 1,311,215; 1,311,216; 1,311,219; 1,498,856
—, —, soot for, 1,209,692
—, —, soya bean oil for, 1,201,301
—, —, starch for, 1,318,106
—, —, stearin pitch for, 1,233,415; 1,233,416
—, —, sugars for, 1,431,455
—, —, sulfur for, 1,233,415; 1,233,416; 1,409,275; 1,431,455
—, —, sulfur chloride for, 1,209,692
—, —, sulfuric acid for, 1,209,692; 1,318,106; 1,400,164
—, —, talc for, 1,311,215; 1,311,216; 1,311,219; 1,409,275
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—, —, tanning liquor, spent, for, 1,247,595
—, —, tapioca, starch for, 1,318,106
—, —, tar for, 1,431,455
—, —, tung oil for, 1,189,549
—, —, turpentine for, 1,189,549; 1,409,275; 1,431,455
—, —, wheat flour for, 1,318,106
—, —, wheat starch for, 1,318,106
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—, —, zinc chloride for, 1,318,106
—, —, zinc oxide for, 1,189,549; 1,431,455
—, molasses in, 1,473,181
—, oil, mineral, in 1,258,272
—, paraffin in, 1,258,272
—, paraffin oil in, 1,258,272
—, *phenol aldehyde condensate, see Phenol aldehyde condensate binder*
—, potassium borate in, 1,271,387
—, resinous, coke briquetted with, 1,443,618
—, road paving made with, 1,278,663
—, rosin size used in, 1,292,068
—, rosin soap used in, 1,292,068
—, sand-core-, mfr. of, cellulose sulfite liquor for, 1,467,321
—, sludge sulfonic acid tar in, 1,271,387
—, sodium carbonate in, 1,473,181
—, starch in, 1,473,181
—, syrup in, 1,473,181
—, temporary, construction of, 1,219,721
—, vegetable, friction facings contg., 1,426,842
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—, —, —, bitumen for, 1,258,103
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—, —, —, process for, 1,258,103
—, —, —, rosin oil for, 1,258,103
—, —, —, soap for, 1,258,103
—, —, —, sodium carbonate for, 1,258,103
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—, —, thread for, 1,167,466
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—, phenol as preservative for, 1,476,233
—, proflavine as preservative for, 1,476,233

Biological product, tri-cresol product as preservative for, 1,476,233
—, *see also Antitoxin; Bacterial extract; Bacterin; Cultural filtrate; Serum; Vaccine; Virus*
Biogaicol, see Guaiacol phosphate
Biose, see also Cellobiose
Biotite, aluminum chloride made with, 1,320,193
—, cement, Portland, made with, 1,250,291
—, clay, china, contg., impurity of, 1,324,958
—, —, —, mid-Cornwall, contg., impurity of, 1,324,958
—, —, —, North America, contg., impurity of, 1,324,958
—, —, —, North Carolina, contg., impurity of, 1,324,958
—, —, —, Pentruff, contg., impurity of, 1,324,958
—, —, Fraddon, contg., impurity of, 1,324,958
—, clay contg., impurity of, 1,324,958
—, expanding, 1,430,085
—, iron chloride made with, 1,320,193
—, pigments prepared from, 1,430,085
—, potassium chloride made with, 1,250,291; 1,320,193
—, potassium compounds made with, 1,250,291; 1,435,593
—, potassium salt from, process for, 1,320,193
—, treating, 1,430,085
—, utilization of, 1,430,085
—, *see also Lepidomelane; Mica, black*
Bi-oxide of manganese, see Manganese dioxide
Biphenyl, chlorinated, fire-extinguisher made with, 1,154,161
o-Biphenyl-dicarboxylic acid, see Diphenic acid
o.o'-Biphenyl-dicarboxylic acid, see Diphenic acid
Biphenylene-sulfonic acids, therapeutic compound made with, 1,218,656
—, thioureas made with, 1,218,656
—, ureas made with, 1,218,656
Biplane wings, see Wings, Biplane
Bi-iso-propenyl, see 2.3-Dimethyl-1.3-butadiene
Biracemate, see Bi-dl-tartrate
Birch, mine pump having fittings made of, 1,194,404
—, nail extracted from, force required, 1,314,772
—, pipe made with, 1,214,887
—, treatment of, linseed oil for, 1,194,404
—, —, pine tar for, 1,194,404
—, —, process for, 1,194,404
—, —, salt for, 1,194,404
—, —, tallow for, 1,194,404
Birch bark, "betuladerma" made with, 1,228,848
—, leather, artificial, made with, 1,228,848
Birch bark extract, cellulose ether, composition of and, 1,505,044
—, ethyl cellulose, composition of and, 1,505,044
—, filament, artificial, made with, 1,505,044
—, film made with, 1,505,044
—, leather, coating for, made with, 1,505,044
—, methyl cellulose, composition of and, 1,505,044
—, paper, coating for, made with, 1,505,044
—, plastic made with, 1,505,044
—, silk, artificial, made with, 1,505,044
—, sizing made with, 1,505,044
Birch bark extract, tannin substitute, 1,505,044
—, textile, coating for, made with, 1,505,044
Birch oil, emulsion of, mfr. of, castor oil for, 1,229,681
—, —, —, castor oil, alkali compounds of, for, 1,229,681
—, —, —, cresols for, 1,229,681
—, —, —, naphthols for, 1,229,681
—, —, —, phenols for, 1,229,681
—, —, —, process for, 1,229,681
—, —, —, soap, castor oil, for, 1,229,681
—, —, —, sodium hydroxide for, 1,229,681
—, leather, dyeing of using, 1,183,829
—, —, treating of using, 1,183,829
—, leather cleaner contg., 1,258,729
—, salve contg., 1,298,407
—, sweet, flesh file made with, 1,203,918
Birch tar, antiseptic soap contg., mfr. of, 1,451,670
—, fabric coated with solution contg., 1,322,786
—, insecticidal soap contg., mfr. of, 1,451,670
—, leather, artificial, coated with solution contg., 1,322,786
—, —, Russian, imitation, made with, 1,322,786
—, leather coated with solution contg., 1,322,786
—, paper coated with solution contg., 1,322,786
Birch tar oil, leather, artificial, addition of odorous substance to contg., 1,270,055
Birch wood diaphragm, chlorine made with, 1,178,591
—, electrolytic cell made with 1,178,591
—, nickel made with, 1,178,591
Birch wood pulp, wall board made with, 1,374,931
Bird, disinfectant for, mfr. of, cotton for, 1,263,527
—, —, —, hair for, 1,263,527
—, —, —, lint for, 1,263,527
—, —, —, naphthalene for, 1,263,527
—, —, —, process for, 1,263,527
—, —, —, talc for, 1,263,527
—, —, —, wool for, 1,263,527
Bird-glue, see Bird-lime
Bird-lime, balloon fabric coated with, 1,460,053
—, thinning, alcohol for, 1,460,053
—, —, borax for, 1,460,053
—, Turkish, balloon fabric coated with, 1,460,053
—, —, *see also Turkish bird-lime*
Bird pepper, see Capsicum
Bis-, see also Di-
Bis-acenaphthylidene, see Δ8.8'-Biacenaphthene
4.4'-Bis(4-acetamino-2.3-dimethyl-5-keto-1-pyrazolyl)-arsenobenzene, mfr. of, acetic acid for, 1,507,694
—, —, 4.4'-bis(4-amino-2.3-dimethyl-5-keto-1-pyrazolyl)-arsenobenzene for, 1,507,694
—, —, bromacetic acid for, 1,507,694
—, —, process for, 1,507,694
—, —, sodium hydroxide for, 1,507,694
Bis-(*p*-acetoacetamino-phenyl)-ether, dyestuff made with, 1,505,569
Bis(*p*-acetoacetamino-phenyl)-methane, dyestuff made with, 1,505,569
Bis(*p*-acetoacetamino-phenyl)-sulfide, dyestuff made with, 1,505,569
Bis(4-acetoacetamino-3-tolyl)-methane, dyestuff made with, 1,505,569

Bis(acetoxy)-methane, cellulose acetate solvent contg., 1,199,800; 1,388,472
—, film, photographic, made with, 1,199,800; 1,388,472
—, plastic made with, 1,199,800; 1,388,472
Bis(*p*-acylacetamino-phenyl)-ether, dyestuff made with, 1,505,569
Bis(*p*-acylacetamino-phenyl)-methane, dyestuff made with, 1,505,569
Bis(*p*-acylacetamino-phenyl)-sulfide, dyestuff made with, 1,505,569
N.N'-Bis(*p*-allyloxy-phenyl)-acetamidine, mfr. of, *p*-allyloxy-acetanilide for, 1,384,637
—, —, *p*-allyloxy-aniline for, 1,384,637
—, —, benzene for, 1,384,637
—, —, phosphorus halide for, 1,384,637
—, —, phosphorous oxyhalide for, 1,384,637
—, —, phosphorous pentoxide for, 1,384,637
—, —, phosphorus trichloride for, 1,384,637
—, —, process for, 1,384,637
—, —, xylene for, 1,384,637
Bis(3-amino-p-anisyl)-methane, see 5.5'-Methylenebis-o-anisidine
Bis(4-amino-3-carboxy-phenyl)-methane, 4.4'-diamino-benzophenone-3.3'-dicarboxylic acid made with, 1,220,248
Bis(4-amino-3-chlor-phenyl)-methane, see 4.4'-Methylenebis (2-chlor-aniline)
Bis-(4-amino-3-chlor-phenyl)-phenyl-methane, dyestuff made with, 1,172,061
Bis-(4-amino-2.5-diamino-phenyl)-methane, dyestuff made with, 1,166,346
4.4'-bis(4-amino-2.3-dimethyl-5-keto-1-pyrazolyl)-arsenobenzene, 4-(4-acetamino-2.3-dimethyl-5-keto-1-pyrazolyl)-4'-(4-amino-2.3-dimethyl-5-keto-1-pyrazolyl)-arsenobenzene made with, 1,507,694
—, 4.4'-bis(4-acetamino-2.3-dimethyl-5-keto-1-pyrazolyl)-arsenobenzene made with, 1,507,694
—, 4.4'-bis(4-amino-2.3-dimethyl-5-keto-1-pyrazolyl)-arsenobenzene, dimethylenesulfoxylic acid derivatives of, made with, 1,507,694
—, 4.4'-bis(4-amino-2.3-dimethyl-5-keto-1-pyrazolyl)-arsenobenzene, *mono*-methylenesulfoxylic acid derivatives of, made with, 1,507,694
—, dimethylenesulfoxylic acid derivatives of, mfr. of, 4.4'-bis(4-amino-2.3-dimethyl-5-keto-1-pyrozolyl)-arsenobenzene for, 1,507,694
—, —, —, *p*-(2.3'-dimethyl-5-keto-1'-pyrazolyl)-benzene-arsonic acid for, 1,507,694
—, —, —, formaldehydesulfoxylate for, 1,507,694
—, —, —, hydrochloric acid for, 1,507,694
—, —, —, methyl alcohol for, 1,507,694
—, —, —, process for, 1,507,694
—, *mono*-methylenesulfocylic acid derivatives of, mfr. of, 4.4'-bis(4-amino-2.3-dimethyl-5-keto-1-pyrazolyl)-arsenobenzene for, 1,507,694
—, —, —, p-(2'.3'-dimethyl-5'-keto-1-pyrazolyl)-benzene-arsonic acid for, 1,507,694
—, —, —, formaldehydesulfoxylate for, 1,507,694
—, —, —, hydrochloric acid for, 1,507,694
—, —, —, methyl alcohol for, 1,507,694
—, —, —, process for, 1,507,694
Bis(4-amino-2.5-dimethyl-phenyl)-methane, see 4.4'-Methylenebis(2.5-xylidine)
Bis(4-amino-3-hydroxy-phenyl)-ketone, dyestuff made with, 1,210,751
Bis(3-amino-4-hydroxy-phenyl)-methane, see 4.4'-Methylenebis(-2-amino-phenol)
Bis(4-amino-3-hydroxy-phenyl)-methane, see 5.5'-Methylenebis-(2-amino-phenol)
Bis(4-amino-3-methyl)-benzophenone, see 4.4'-Diamino-3.3'-dimethylbenzophenone
Bis(4-amino-3-methyl-phenyl)-methane, see 4.4'-Methylenebis-o-toluene
Bis(4-amino-3-methyl-phenyl)-phenyl-methane, see Bis-(4-amino-3-tolyl)-phenylmethane
N.N'-Bis(4-amino-1-naphthyl)-*m*-benzenedisulfonamide, mfr. of, acetic acid for, 1,442,818
—, —, acid for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzene-diazonium chloride for, 1,442,818
—, —, *m*-benzenedisulfonyl-chloride for, 1,442,818
—, —, *N.N'*-di-1-naphthyl-*m*-benzenedisulfonamide for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthalene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, 1-naphthylamine for, 1,442,818
—, —, process for, 1,442,818
—, —, sodium acetate for, 1,442,818
—, —, sodium carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, sodium sulfide for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818
—, —, titanium(ous) chloride for, 1,442,818
—, —, *o*-toluene-diazonium chloride for, 1,442,818
—, —, *p*-toluene-diazonium chloride for, 1,442,818
—, —, zinc dust for, 1,442,818
N.N'-Bis(4-amino-1-naphthyl)-2.6-naphthalenedisulfonamide, mfr. of, acid for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzene-diazonium chloride for, 1,442,818
—, —, *N.N'*-di-1-naphthyl-2.6-naphthalenedisulfonamide for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthalene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, naphthalene-2.6-disulfonyl chloride for, 1,442,818
—, —, 1-naphthylamine for, 1,442,818
—, —, process for, 1,442,818
—, —, sodium acetate for, 1,442,818
—, —, sodium carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, sodium sulfide for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818
—, —, titanium(ous) chloride for, 1,442,818
—, —, *o*-toluene-diazonium chloride for, 1,442,818
—, —, *p*-toluene-diazonium chloride for, 1,442,818
—, —, zinc dust for, 1,442,818

Bis(aminophenyl)-amine, see Diamino-diphenylamine
Bis(4-ammino-phenyl)-amine, see 4.4'-Diamino-diphenylamine
Bis(p-aminophenyl)-arsinic acid, see also Arsanilic acid
Bis(o-amino-phenyl)-disulfide, dyestuff made with, 1,452,805
Bis(4-amino-phenyl)-ether, dyestuff made with, 1,362,936
Bis(amino-phenyl)-ketone, see Diamino-benzophenone
Bis(aminophenyl)-methane, see Methylenebis-aniline
Bis(3-aminophenyl)-methane, see 3.3'-Methylenebis-aniline
Bis(4-amino-phenyl)-methane, see 4.4'-Methylenebis-aniline
N.N'-Bis(amino-phenyl)-urea, see Diamino-carbanilide
N.N'-Bis(4-amino-2-sulfo-1-naphthyl)-m-benzenedisulfonamide, mfr. of, acetic acid for, 1,442,818
—, —, acids for, 1,442,818
—, —, sulfonic acid for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzene-diazonium chloride for, 1,442,818
—, —, m-benzenedisulfonyl chloride for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthylene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, process for, 1,442,818
—, —, pyridine for, 1,442,818
—, —, sodium acetate for, 1,442,818
—, —, sodium carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, sodium sulfide for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818
—, —, titanium(ous) chloride for, 1,442,818
—, —, o-toluene-diazonium chloride for, 1,442,818
—, —, p-toluene-diazonium chloride for, 1,442,818
—, —, zinc dust for, 1,442,818
N.N'-Bis(4-amino-6-sulfo-1-naphthyl)-m-benzenedisulfonamide, mfr. of, acetic acid for, 1,442,818
—, — acids for, 1,442,818
—, —, 1-amino-naphthalene-6-sulfonic acids for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzene-diazonium chloride for, 1,442,818
—, —, m-benzene-disulfonyl chloride for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthalene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, process for, 1,442,818
—, —, pyridine for, 1,442,818
N.N'-Bis(4-amino-6-sulfo-1-naphthyl)-m-benzenedisulfonamide, mfr. of, sodium acetate for, 1,442,818
—, —, sodium carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, sodium sulfide for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818
—, —, titanium(ous) chloride for, 1,442,818
—, —, o-toluene-diazonium chloride for, 1,442,818
—, —, p-toluene-diazonium chloride for, 1,442,818
—, —, zinc dust for, 1,442,818
N.N'-Bis-(4-amino-7-sulfo-1-naphthyl-m-benzenedisulfonamide, mfr. of, acetic acid for, 1,442,818
—, —, acids for, 1,442,818
—, —, 1-amino-naphthalene-7-sulfonic acid for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzene-diazonium chloride for, 1,442,818
—, —, m-benzene-disulfonyl chloride for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthalene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, pyridine for, 1,442,818
—, —, sodium acetate for, 1,442,818
—, —, sodium carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, sodium sulfide for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818
—, —, titanium(ous) chloride for, 1,442,818
—, —, o-toluene-diazonium chloride for, 1,442,818
—, —, p-toluene-diazonium chloride for, 1,442,818
—, —, zinc dust for, 1,442,818
N.N' Bis(4-amino-8-sulfo-1-naphthyl)-m-benzenedisulfonamide, mfr. of, acetic acid for, 1,442,818
—, —, acids for, 1,442,818
—, —, 1-amino-naphthalene-8-sulfonic acid for, 1,442,818
—, —, ammonium chloride for, 1,442,818
—, —, aniline for, 1,442,818
—, —, benzene-diazonium chloride for, 1,442,818
—, —, m-benzenedisulfonyl chloride for, 1,442,818
—, —, iron for, 1,442,818
—, —, 1-naphthalene-diazonium chloride for, 1,442,818
—, —, 2-naphthalene-diazonium chloride for, 1,442,818
—, —, process for, 1,442,818
—, —, pyridine for, 1,442,818
—, —, sodium acetate for, 1,442,818
—, —, sodium carbonate for, 1,442,818
—, —, sodium hydroxide for, 1,442,818
—, —, sodium hyposulfite for, 1,442,818
—, —, sodium sulfide for, 1,442,818
—, —, tin(ous) chloride for, 1,442,818
—, —, titanium(ous) chloride for, 1,442,818

N.N' Bis(4-amino-8-sulfo-1-naphthyl)-*m*-benzenedisulfonamide, mfr. of, *o*-toluene-diazonium chloride for, 1,442,818
—, —, *p*-toluene-diazonium chloride for, 1,442,818
—, —, zinc dust for, 1,442,818
Bis(3-amino-4-tolyl)-methane, see 5.5'-Methylenebis-o-toluidine
Bis(3-amino-p-tolyl)-methane, see 5.5'-Methylenebis-o-toluidine
Bis(4-amino-3-tolyl)-phenyl-methane, dyestuff made with, 1,172,061
Bis(3-amino-4.6-xylyl)-methane, see 5.5'-Methylenebis(2.4-xylidine)
Bis-(aminoxylyl)-(*m*-nitrophenyl)-methane, dyestuff made with, 1,172,061
—, mfr. of, *m*-nitrobenzaldehyde for, 1,172,061
mfr. of, *p*-xylidine for, 1,172,061
Bis(*p*-amylamino-phenyl)-arsinic acid, *N*-amyl-arsanilic acid, separation of from, 1,440,621
—, mfr. of, process for, 1,440,621
1.5-Bis(2-anthraquinonylamine)-anthraquinone, see Indanthrene Bordeaux B
Bis(benzalamino)-phenyl-methane, see Hydrobenzamide
1.5-Bis(benzoylamino)-anthraquinone, aluminum-leuco derivatives of, mfr. of, process for, 1,175,634
—, calcium-leuco derivatives of, mfr. of, process for, 1,175,634
—, dyestuff made with, 1,175,634
—, iron-leuco derivatives of, mfr. of, process for, 1,175,634
—, magnesium leuco derivatives of, mfr. of, process for, 1,175,634
—, metal-leuco-derivatives of, mfr. of, process for, 1,175,634
—, tin-leuco derivatives of, mfr. of, process for, 1,175,634
—, zinc-leuco derivatives of, mfr. of, process for, 1,175,634
Bis(3-carboxyl-4-hydroxy-1-naphthyl)-ketone, mfr. of, carbon tetrachloride for, 1,453,659
—, —, 1-hydroxy-2-naphthoic acid for, 1,453,659
—, —, methane, tetrahalogenated, for, 1,453,659
—, —, process for, 1,453,659
—, —, sodium chloride for, 1,453,659
—, —, sodium hydroxide for, 1,453,659
—, sodium salt of, mfr. of, process for, 1,453,659
Bischofite, see Magnesium chloride
Bischlorol, see Bismuth oxychloride
Bis(chlor-phenyl)-ether, cellulose ether, solvent for contg., 1,479,955
—, ethyl cellulose, solvent for contg., 1,479,955
—, film made with, 1,479,955
Bis-compounds, see also Di-compounds
Biscuit, barley, mfr. of, process for, 1,264,876
—, bean, mfr. of, process for, 1,264,876
—, buckwheat, mfr. of, process for, 1,264,876
—, carrot, mfr. of, process for, 1,264,876
—, cassava, mfr. of, process for, 1,264,876
—, cereal, mfr. of, process for, 1,264,876
—, concentrated, mfr. of, 1,293,772
—, container for, mfr. of, acetic acid, glacial, for, 1,488,634
—, —, —, cardboard for, 1,488,634
—, —, —, cellulose acetate for, 1,488,634
Biscuit, container for, mfr. of, formic acid for, 1,488,634
—, —, —, paper for, 1,488,634
—, —, —, process for, 1,488,634
—, maize, mfr. of, process for, 1,264,876
—, oat, mfr. of, process for, 1,264,876
—, pea, mfr. of, process for, 1,264,876
—, potato, mfr. of, process for, 1,264,876
—, rice, mfr. of, process for, 1,264,876
—, rye, mfr. of, process for, 1,264,876
—, turnip, mfr. of, process for, 1,264,876
—, wheat, whole, mfr. of, process for, 1,264,876
Biscuit powder, bacteria preparation made with, 1,179,625
a.d-Bis((cyan-methyl)-amino)-n-butane, see N.N'-(Tetramethylene-bis glycinonitrile
1.3-Bis(dichlor-methyl)-chlor-benzene, mfr. of, chlorine for, 1,219,166
—, —, process for, 1,219,166
—, —, *m*-xylene for, 1,219,166
1.3-Bis-(dichlor-methyl)-dichlor-benzene, mfr. of, chlorine for, 1,219,166
—, —, process for, 1,219,166
—, —, *m*-xylene for, 1,219,166
1.4-Bis(dichlor-methyl)-dichlor-benzene, mfr. of, chlorine for, 1,219,166
—, —, process for, 1,219,166
—, —, *p*-xylene for, 1,219,166
1.3-Bis-(dichlor-methyl)-tetrachlor-benzene, mfr. of, chlorine for, 1,219,166
—, —, process for, 1,219,166
—, —, *m*-xylene for, 1,219,166
1.4-Bis(dichlor-methyl)-tetrachlor-benzene, mfr. of, chlorine for, 1,219,166
—, —, process for, 1,219,166
—, —, *p*-xylene for, 1,219,166
1.2-Bis(dichlor-methyl)-trichlor-benzene, mfr. of, chlorine for, 1,219,166
—, —, process for, 1,219,166
—, —, *o*-xylene for, 1,219,166
1.3-Bis(dichlor-methyl)-trichlor-benzene, mfr. of, chlorine for, 1,219,166
—, —, process for, 1,219,166
—, —, *m*-xylene for, 1,219,166
p.p'-Bis(diethylamino)-benzohydrol, dyestuff made with, 1,503,177
Bis(*p*-diethylamino)-benzophenone, dyestuff made with, 1,504,061
Bis(4-diethylamino-phenyl)-(3-hydroxy-phenyl)-methane, mfr. of, *N.N*-diethylaniline for, 1,509,413
—, —, *m*-hydroxy-benzaldehyde for, 1,509,413
—, —, process for, 1,509,413
—, —, sulfuric acid for, 1,509,413
—, sulfonation of, process for, 1,509,413
—, —, sulfuric acid, fuming, for, 1,509,413
Bis(4-diethylamino-phenyl)-methane, see 4.4'-Methylenebis(N.N-diethylaniline)
Bis(p-diethylaminophenyl)-phenyl-carbinol, salt of, see Brilliant green
1.3-Bis(diethylamino)-2-propanol, 1.3-bis (diethylamino)-2-propyl-benzoate made with, 1,193,634
—, 1.3-bis(diethylamino)-2-propyl toluate made with, 1,193,634

1.3-Bis(diethylamino)-2-propyl benzoate, anesthetic, 1,193,634
—, cocaine substitute, 1,193,634
—, mfr. of, acetone for, 1,193,634
—, —, benzoyl chloride for, 1,193,634
—, —, 1.3-bis-(diethylamino)-2-propanol for, 1,193,634
—, —, potassium carbonate for, 1,193,634
—, —, process for, 1,193,634
—, properties of, 1,193,634
1.3-Bis(diethylamino)-2-propyl-toluate, anesthetic, 1,193,634
—, cocaine substitute, 1,193,634
—, mfr. of, acetone for, 1,193,634
—, —, 1.3-bis(diethylamino)-2-propanol for, 1,193,634
—, —, process for, 1,193,634
—, —, *p*-tolyl chloride for, 1,193,634
—, properties of, 1,193,634
p.p'-Bis(diethylamino)-thiobenzophenone, mfr. of, bis(4-diethylamino-phenyl) methane for, 1,220,248
—, —, process for, 1,220,248
—, properties of, 1,220,248
Bis-(4-(4'.5'-dihydro-5'-keto-3'-methyl-pyrazolyl)-3-methyl-phenyl)-methane, bis-(4'-hyrazino-3-methyl-phenyl)-methane for, 1,166,346
—, dyestuff made with, 1,166,346
—, mfr. of, ethyl acetoacetate for, 1,166,346
—, —, process for, 1,166,346
2.8-Bis(dimethylamino)-acridine, dyestuff made with, 1,165,531
p.p'-Bis(dimethylamino)-benzohydrol, compound $C_{28}H_{26}O_6N_2S$, made with, 1,503,177
—, dyestuff made with, 1,483,084; 1,503,177
Bis(*p*-dimethylamino)-benzophenone, dyestuff made with, 1,504,061
p.p'-Bis(dimethylamino)-diphenylamine, hair, dyeing of using, 1,183,748
—, skins, dyeing of using, 1,183,748
Bis(dimethylaminophenyl)-carbinol, see p.p'-Bis(dimethylamino)-benzohydrol
Bis(4-dimethylamino-phenyl)-carbinol, see p.p'-Bis(dimethylamino)-benzohydrol
Bis(4-dimethylamino-phenyl)-methane, see 4.4'-Methylenebis(N.N'-dimethyl-aniline)
Bis(p-dimethylamino-phenyl-phenyl-carbinol, see Malachite green
p.p'-Bis(dimethylamino)-thiobenzophenone, mfr. of, alcohol for, 1,220,248
—, —, bis(4-dimethylamino-phenyl)-methane for, 1,220,248
—, —, hydrochloric acid for, 1,220,248
—, —, process for, 1,220,248
—, —, sodium sulfide for, 1,220,248
—, —, sulfur for, 1,220,248
—, properties of, 1,220,248
3.3'-Bis(3.6-disulfo-8-hydroxy-1-naphthylaminosulfonyl)-carbanilide, dyestuff made with, 1,218,654; 1,218,655; 1,308,071
—, mfr. of, 8-(3'-aminobenzoylsulfonylamino)-1-naphthol-3.6-disulfonic acid for, 1,218,654; 1,218,655; 1,308,071
—, —, 8-amino-1-naphthol-3.6-disulfonic acid for, 1,218,654; 1,218,655; 1,308,071
—, —, carbonyl chloride for, 1,218,654; 1,218,655
3.3'-Bis(3.6-disulfo-8-hydroxy-1-naphthylaminosulfonyl)-carbanilide, mfr. of, hydrochloric acid for, 1,218,654; 1,218,655
—, —, iron for, 1,218,654; 1,218,655
—, —, *m*-mitro-benzenesulfonyl chloride for, 1,218,654; 1,218,655; 1,308,071
—, —, process for, 1,218,654; 1,218,655; 1,308,071
—, —, sodium acetate for, 1,218,654; 1,218,655; 1,308,071
—, —, sodium carbonate for, 1,218,654; 1,218,655; 1,308,071
—, —, sodium chloride for, 1,218,654; 1,218,655; 1,308,071
—, therapeutic compound made with, 1,308,071
—, therapeutic properties of, 1,218,654; 1,218,655
—, ureas made with, 1,308,071
Bis(*N*-ethyl-*N*-hydroxyethyl-aminophenyl)-methane, dyestuff made with, 1,483,084
Bis(*N*-ethyl-*N*-hydroxy-ethyl-aminophenyl)-methane-*omega* sulfonic acid, dyestuff made with, 1,483,084
—, mfr. of, *N*-ethylanilino-ethanol for, 1,483,084
—, —, formaldehyde for, 1,483,084
—, —, formic acid for, 1,483,084
—, —, lead peroxide for, 1,483,084
—, —, process for, 1,483,084
—, —, sulfuric acid for, 1,483,084
1.3-Bis(*N*-ethyl-*N*-methyl-amino)-2-propanol, 1.3-Bis(*N*-ethyl-*N*-methyl-amino)-2-propyl benzoate made with, 1,193,634
1.3-Bis(*N*-ethyl-*N*-methyl-amino)-2-propyl benzoate, anesthetic, 1,193,634
—, cocaine substitute, 1,193,634
—, mfr. of, acetone for, 1,193,634
—, —, benzoyl chloride for, 1,193,634
—, —, 1.3-bis(*N*-ethyl-*N*-methyl-amino)-propanol for, 1,193,634
—, —, process for, 1,193,634
—, properties of,1,193,634
Bis(*N*-ethyl-*N*-(sulfo-benzyl)-4-amino-phenyl)-methane, compound, $C_{49}H_{45}O_8N_3S_2$, made with, 1,504,060
—, dyestuff made with, 1,504,060
Bis(*N*-ethyl-*N*-(sulfo-benzyl)-amino-phenyl)-phenyl-carbinol, film, motion picture, colored, made with, 1,505,787
—, photographic reproduction, colored, made with, 1,505,787
a.b-Bis(formyl-oxy)ethane, see Glycol diformate
Bis-(4-hydrazino-3-methyl-phenyl)-methane, bis-4-(4'-5'-dihydro-5'-keto-3'-methyl-1'-pyrazolyl)-3-methyl-phenyl)-methane made with, 1,166,346
—, dyestuff made with, 1,166,346
Bis(hydroxy-aryl)-ethane condensation products, cellulose ether, composition of and, 1,505,044
—, ethyl cellulose, composition of and, 1,505,044
—, filament, artificial, made with, 1,505,044
—, film made with, 1,505,044
—, leather, coating for, made with, 1,505,044
—, methyl cellulose, composition of and, 1,505,044
—, paper, coating for, made with, 1,505,044

Bis(hydroxy-aryl)-ethane condensation products, plastic made with, 1,505,044
—, silk, artificial, made with, 1,505,044
—, sizing made with, 1,505,044
—, tannin substitute, 1,505,044
—, textile, coating for, made with, 1,505,044
Bis-hydroxyethyl-m-toluidine, see N.N'-Di-b-hydroxyethyl-m-toluidine
b.b-Bis(4-hydroxy-3-isopropyl-2-methyl-phenyl)-ethylamine, mfr. of, aminoacetal for, 1,432,291
—, —, hydrochloric acid for, 1,432,291
—, —, process for, 1,432,291
—, —, thymol for, 1,432,291
2.2-Bis(4-hydroxy-3-methyl-phenyl)-propane, tanning compound made with, 1,414,045; 1,421,722
Bis(hydroxymethyl)-urea, molded article made with, 1,482,358
—, resin, artificial, made with, 1,482,358
—, urea-formaldehyde condensate made with, 1,482,358
s-Bis(hydroxymethyl)-urea, adhesive made with, 1,355,834
—, airplane dope made with, 1,355,834
—, billiard ball made with, 1,482,358
—, celluloid substitute made with, 1,355,834
—, cigarette holder made with, 1,482,358
—, coating made with, 1,355,834
—, dental fillings made with, 1,355,834
—, door knobs made with, 1,482,358
—, formaldehyde-urea condensate made with, 1,482,358
—, handles made with, 1,482,358
—, horn substitute made with, 1,355,834
—, ivory, imitation, made with, 1,482,358
—, lacquer made with, 1,355,834
—, molded article made with, 1,482,358; 1,507,624
—, ornaments made with, 1,482,358
—, pipe stems made with, 1,482,358
—, record, phonograph, made with, 1,482,358
—, rubber substitute made with, 1,355,834
—, toilet articles made with, 1,482,358
—, urea-formaldehyde condensate made with, 1,355,834; 1,458,543; 1,507,624
4.4'-Bis(3-hydroxy-2'-naphthylamino)-diphenylamine)-sulfonic acid, dyestuff made with, 1,183,378
Bis(4((3'-hydroxy-2'-naphthoyl)-amino)-phenyl)-amine-sulfonic acid, see 4.4'-Bis(3'-hydroxy-2'-naphthoylamino)-diphenylamine-sulfonic acid
3.5-Bis(3'-hydroxy-2'-naphthoylamino)-*p*-toluenesulfonic acid, dyestuff made with, 1,183,378
3.5-Bis(3'-hydroxy-2'-naphthoylamino)-*p*-toluic acid, dyestuff made with, 1,183,378
Bis b-hydroxy-naphthoyl-4.4'-diamino-diphenylamine-sulfonic acid, see 4.4'-Bis(3'-hydroxy-2'-naphthoylamino)-diphenylamine-sulfonic acid
N.N'-Bis(3'-hydroxy-2'naphthoyl)-2-m-tolylenediamine-5-sulfonic acid, see 3.5-Bis(3'-hydroxy-2'-naphthoylamino)-p-toluenesulfonic acid
b.b-Bis(2-hydroxy-naphthyl)-ethylamine, mfr. of, aminoacetal for, 1,432,291
—, —, 2-naphthol for, 1,432,291
—, —, process for, 1,432,291
2.2'-Bis(4-hydroxy-phenol)-propane, tanning compound made with, 1,414,045
b.b-Bis(4-hydroxy-phenyl)-ethylamine, mfr. of, acetic acid for, 1,432,291
—, —, aminoacetal for, 1,432,291
—, —, ammonium hydroxide for, 1,432,291
—, —, phenol for, 1,432,291
—, —, process for, 1,432,291
—, —, sodium carbonate for, 1,432,291
—, —, sulfuric acid for, 1,432,291
2.2-Bis(hydroxy-phenyl)-propane, adhesive made with, 1,158,962
—, amber substitute made with, 1,158,962
—, bronzing paint made with, 1,158,962
—, brush made with, 1,156,969
—, buttons made with, 1,158,962
—, celluloid substitute made with, 1,156,969; 1,158,960; 1,158,961; 1,158,962; 1,188,356
—, cellulose acetate plasticizer, 1,156,969; 1,158,960; 1,158,963; 1,158,964
—, cellulose nitrate plasticizer, 1,156,969; 1,158,961; 1,158,964
—, cement made with, 1,158,962
—, cement, impregnation of, using, 1,158,962
—, cloth, impregnation of, using, 1,158,962; 1,158,965
—, combs made with, 1,158,962
—, cotton, impregnation of, using, 1,156,969
—, —, waterproofing of, using, 1,156,969
—, dihydroxy-diphenyl-dimethyl-methane aldehyde condensate made with, 1,158,962; 1,158,963; 1,158,964
—, dress suit case made with, 1,158,962
—, enamel made with, 1,158,962
—, fabric, impregnation of, using, 1,158,962
—, —, waterproof, made with, 1,156,969
—, filament, artificial, made with, 1,156,969
—, film, motion picture, made with, 1,158,961; 1,158,962; 1,158,963
—, floor covering made with, 1,158,962
—, glass substitute made with, 1,156.969
—, gum, artificial, made with, 1,225,748; 1,225,749
—, horn substitute made with, 1,156,969; 1,158,962
—, ink, indelible, made with, 1,158,962
—, insulation made with, 1,156,969
—, insulation, electric, made with, 1,156,969; 1,158,962; 1,397,144
—, ivory substitute made with, 1,156,969; 1,158,962
—, lacquer made with, 1,156,969
—, leather, artificial, made with, 1,156,969
—, —, dressing for, made with, 1,156,969; 1,158,962
—, —, imitation, made with, 1,156,969
—, —, impregnation of, using, 1,158,965
—, —, patent, made with, 1,156,969
—, —, waterproof, made with, 1,156,969
—, line, impregnation of, using, 1,156,969
—, —, waterproofing of, using, 1,156,969
—, mfr. of, acetone for, 1,188,356; 1,225,748; 1,225,749; 1,225,750

2.2-Bis(hydroxy-phenyl)-propane, mfr. of, phenol for, 1,188,356; 1,225,748; 1,225,749; 1,225,750
—, —, process for, 1,225,748; 1,225,749; 1,225,750
—, matrix, linotype machine, made with, 1,158,962
—, molded article made with, 1,397,144
—, mucilage substitute made with, 1,158,962
—, paint made with, 1,158,962
—, paint, aluminum, made with, 1,158,962
—, paper, impregnation of, using, 1,158,962; 1,158,965
—, —, waterproof, made with, 1,156,969
—, phenol aldehyde condensate made with, 1,225,748; 1,225,749
—, phonograph record made with, 1,158,964
—, plastic made with, 1,156,969; 1,158,960; 1,158,961; 1,397,144
—, polish made with, 1,158,962
—, powder bags (ordnance), made with, 1,156,969
—, roofing made with, 1,158,962
—, rubber, hard, substitute for, made with, 1,158,962
—, shaving brush made with, 1,156,969
—, silk, artificial, made with, 1,156,969
—, —, impregnation of, using, 1,156,969
—, —, waterproofing of, using, 1,156,969
—, solvent for, acetic acid as, 1,156,969; 1,225,748; 1,225,749
—, —, acetone as, 1,156,969; 1,158,961
—, —, alcohol as, 1,156,969; 1,158,960; 1,225,748; 1,225,749
—, —, amyl acetate as, 1,156,969; 1,158,961
—, —, amyl alcohol as, 1,156,969
—, —, chloroform as, 1,158,960
—, —, ether as, 1,156,969
—, —, ethyl acetate as, 1,225,748; 1,225,749
—, —, *s*-tetrachlorethane as, 1,156,969; 1,158,962; 1,158,963; 1,158,964
—, tiling made with, 1,158,962
—, tooth brush made with, 1,156,969
—, tortoise shell substitute made with, 1,156,969; 1,158,962
—, trunk made with, 1,158,962
—, wall covering made with, 1,158,962
—, wood, artificial, made with, 1,397,144
—, —, impregnation of, using, 1,158,962; 1,158,965
2.2-Bis(4-hydroxy-phenyl)-propane, tanning compound made with, 1,414,045; 1,421,722
2.2-Bis(hydroxy-phenyl)-propane aldehyde condensate, adhesive made with, 1,158,962
—, amber substitute made with, 1,158,962
—, bronzing paint made with, 1,158,962
—, buttons made with, 1,158,962
—, celluloid substitute made with, 1,158,962
—, cement made with, 1,158,962
—, cement, impregnation of, using, 1,158,962
—, cloth, impregnation of, using, 1,158,962; 1,158,965
—, combs made with, 1,158,962
—, dress suit case made with, 1,158,962
—, enamel made with, 1,158,962
—, fabric, impregnation of, using, 1,158,962
—, film, motion picture, made with, 1,158,962; 1,158,963
2.2-Bis(hydroxy-phenyl)-propane aldehyde condensate, floor covering made with, 1,158,962
—, horn substitute made with, 1,158,962
—, ink, indelible, made with, 1,158,962
—, insulation, electric, made with, 1,134,436; 1,158,962
—, ivory substitute made with, 1,158,962
—, leather, dressing for, made with, 1,158,962
—, leather impregnated with, 1,134,436; 1,158,965
—, mfr. of, acetaldehyde for, 1,158,962; 1,158,963; 1,158,964
—, —, acetone for, 1,158,962; 1,158,963; 1,158,964
—, —, cresol for, 1,158,962; 1,158,963; 1,158,964
—, —, diethyl ketone for, 1,158,962; 1,158,963; 1,158,964
—, —, dihydroxy-diphenyl-dimethylmethane for, 1,158,962; 1,158,963 1,158,964
—, —, ethyl methyl ketone for, 1,158,962; 1,158,963; 1,158,964
—, —, formaldehyde for, 1,158,962; 1,158,963; 1,158,964
—, —, hexamethylenetetramine for, 1,158,962; 1,158,963; 1,158,964
—, —, ketones for, 1,158,962; 1,158,963; 1,158,964
—, —, phenol for, 1,158,962; 1,158,963; 1,158,964
—, —, process for, 1,158,962; 1,158,963; 1,158,964
—, matrix, linotype machine made with, 1,158,962
—, mucilage substitute made with, 1,158,962
—, paint made with, 1,158,962
—, paint, aluminum, made with, 1,158,962
—, paper impregnated with, 1,134,436; 1,158,962; 1,158,965
—, phonograph record made with, 1,158,964
—, polish made with, 1,158,962
—, roofing made with, 1,158,962
—, rubber, hard, substitute, for, made with, 1,158,962
—, solvent for, acetic acid as, 1,158,962; 1,158,963; 1,158,964
—, —, acetone as, 1,158,962; 1,158,963; 1,158,964
—, —, alcohol as, 1,158,962; 1,158,963; 1,158,964
—, —, amyl acetate as, 1,158,962; 1,158,963; 1,158,964
—, —, amyl alcohol as, 1,158,962; 1,158,963; 1,158,964
—, —, ether as, 1,158,962; 1,158,963; 1,158,964
—, —, *s*-tetrachlorethane as, 1,518,962; 1,158,963; 1,158,964
—, tiling made with, 1,158,962
—, tortoise shell substitute made with, 1,158,962
—, trunk made with, 1,158,962
—, wall covering made with, 1,158,962
—, wood impregnated with, 1,134,436; 1,158,962; 1,158,965
2.2-Bis(4-hydroxy-phenyl)-propane-sulfonic acid, mfr. of, process for, 1,421,722
Bis(5-hydroxy-7-sulfo-2-naphthyl)-urea, dyestuff made with, 1,338,414
o-Bis(5-hydroxy-7-sulfo-2-naphthyl)-urea, dyestuff made with, 1,265,031; 1,276,307; 1,282,354; 1,282,355; 1,282,356; 1,292,385

s-Bis(-5-hydroxy-7-sulfo-2-naphthyl)-urea, dyestuff made with, 1,292,385; 1,509,442
2.2 Bis(-4-hydroxy-*m*-tolyl)-methane, sulfonic acid, tanning compound made with, 1,414,045
2.2-Bis(hydroxy-tolyl)-propane, gum, artificial, made with, 1,225,750
—, mfr. of, acetone for, 1,225,750
—, —, cresol for, 1,225,750
—, —, process for, 1,225,750
—, phenol aldehyde condensate made with, 1,225,750
2.2-Bis(4-hydroxy-*m*-tolyl)-propane, tanning compound made with, 1,414,045; 1,421,722
Bismal, see Bismuth-methylene gallate
Bisial, see Slate
Bi-silicates, fertilizer contg., 1,135,387
Bismark brown, celluloid substitute made with, 1,181,858; 1,242,783
—, coatings made with, 1,242,783
—, dyeing with, 1,414,029; 1,414,030; 1,414,031
—, dyeing mixture contg., 1,457,581
—, dye-soap contg., 1,307,113
—, film made with, 1,242,783
—, gold leaf, imitation made with, 1,160,979
—, metal leaf made with, 1,160,979
—, tortoise shell, imitation, made with, 1,242,783
—, varnish made with, 1,242,783
—, *see also Benzene-diazo-phenylene-diamine; Triamino-azo-benzene*
—, (T.D.), alkali proofing, 1,349,265
4.4'-Bis(methylamino)-3.3'-dimethyl-thiobenzophen, mfr. of, alcohol for, 1,220,248
—, —, bis(3-methyl-4-methylamino-phenol)-methane for, 1,220,248
—, —, hydrochloric acid for, 1,220,248
—, —, process for, 1,220,248
—, —, sodium sulfide for, 1,220,248
—, —, sulfur for, 1,220,248
—, properties of, 1,220,248
4.4'-Bis(methyl-amino)-3.3'-5.5'-tetramino-arsenobenzene, see 4.4'-Dimethylamino-3.3'-5.5'-tetramino-arsenobenzene
Bis(N-methylanilino)-quinone, see (??) Dianilino-N.N-dimethyl-quinone
a.d-Bis((a'-methyl-a'-carboxyl-ethyl)-amino)-n-butane, see Tetramethylene-bis,(a-amino-isobutyric acid)
Bis(4.4'-methylenebis(2-amino-phenyl)-ether, dyestuff made with, 1,342,134
Bis(3-methyl-4-methylamino-phenyl)-methane, see 4.4'-Methylenebis-(N-methyl-o-toluidine)
Bismuth, alloy contg., 1,126,646; 1,164,997; 1,194,101; 1,239,854; 1,248,925; 1,377,517; 1,453,928; 1,483,327; 1,497,011; 1,502,425; 1,513,806
—, alloy, fusible, contg., 1,152,834; 1,191,572
—, —, self-disintegrating, contg., 1,421,471
—, alloy contg., airplane propeller made with, 1,343,191
—, —, alkali earth metals prepared with, 1,359,813
—, —, fire detecting wire made with, 1,235,028
—, —, hollow article made with, 1,343,191
—, —, hollow article molded using, 1,135,962
—, —, lead, electrolytic deposition of on, process for, 1,306,479
—, —, molded article made with, 1,377,517
Bismuth, alloy contg., molded article, hollow, made with, 1,343,191; 1,504,547
—, —, molded with, 1,406,730
—, —, phenol aldehyde condensate made with, 1,377,517
—, —, printing plate made with, 1,377,517
—, —, printing plate matrices of, 1,140,031
—, —, rubber vulcanized by immersion in, 1,368,071
—, alloys de-oxidized with, 1,350,166
—, alloy of antimony and, 1,452,750
—, alloy of cadmium and, 1,452,750
—, alloy of lead and, 1,452,750
—, alloy of tin and, 1,452,750
—, aluminum alloy contg., 1,410,463; 1,453,928
—, aluminum coated with, 1,370,967
—, aluminum ornamented by, 1,370,967
—, aluminum-silicon alloy contg., 1,410,461
—, aluminum solder contg., 1,194,101; 1,239,854; 1,323,520; 1,341,508; 1,437,641
—, amino compounds mfr. with, as catalyst, 1,451,489
—, *p*-amino-phenol made with, 1,239,822
—, ammonia synthesis with, 1,396,557
—, aniline made with, 1,239,822
—, antimony, removal of from, alkali for, 1,166,721
—, —, —, carbon for, 1,166,721
—, —, —, process for, 1,166,721
—, —, —, sodium hydroxide for, 1,166,721
—, —, —, sulfates for, 1,166,721
—, —, —, sulfides for, 1,166,721
—, —, —, sulfur for, 1,166,721
—, —, —, zinc for, 1,166,721
—, antimony separated from, 1,428,041
—, arsenic, removal of from, alkali for, 1,166,721
—, —, —, carbon for, 1,166,721
—, —, —, process for, 1,166,721
—, —, —, sodium hydroxide for, 1,166,721
—, —, —, sulfates for, 1,166,721
—, —, —, sulfides for, 1,166,721
—, —, —, sulfur for, 1,166,721
—, —, —, zinc for, 1,166,721
—, arsenic, separation of from, process for, 1,198,095; 1,428,041
—, —, —, sulfuric acid for, 1,198,095
—, azo compounds made with, as catalyst, 1,451,489
—, azoxy compounds made with, as catalyst, 1,451,489
—, bearing metal contg., 1,324,763; 1,497,011 1,502,425
—, bearing metal, hardening composition for contg., 1,502,425
—, bismuth chloride from, 1,360,271
—, bismuth oxide, yellow, made with, 1,318,336
—, bismuth 8-quinolinolate made with, 1,485,380
—, carbon, activated, made with, 1,520,437
—, catalyst, iron as, made with, 1,489,497
—, —, amino compounds made with, 1,451,489
—, ammonia made with, 1,495,655
—, —, azo compound made with, 1,451,489
—, —, azoxy compounds made with, 1,451,489
—, —, hydrazo compounds made with, 1,451,489
—, —, mfr. of, process for, 1,451,489
—, catalyst poisons, 1,489,497; 1,510,598
—, —, for ammonia mfr., 1,148,570; 1,152,930

Bismuth, cobalt alloy contg., 1,513,806
—, colloidal, mfr. of, acacia for, 1,491,250
—, —, —, albumen for, 1,491,250
—, —, —, albumose for, 1,491,250
—, —, —, bismuth electrode for, 1,491,250
—, —, —, hydrazine for, 1,491,250
—, —, —, hydroxylamine for, 1,491,250
—, —, —, process for, 1,491,250
—, —, —, pyrocatechol for, 1,491,250
—, —, —, pyrogallol for, 1,491,250
—, —, —, sodium hyposulfite for, 1,491,250
—, colloidal solution of, mfr. of, process for, 1,189,696
—, copper, removal of from, carbon for, 1,166,721
—, —, —, process for, 1,168,721
—, —, —, sulfates for, 1,166,721
—, —, —, sulfides for, 1,166,721
—, —, —, sulfur for, 1,166,721
—, —, —, zinc for, 1,166,721
—, copper alloy contg., 1,248,925
—, copper sulfate solution contg., removal of from, process for, 1,276,130
—, dental alloy contg., 1,164,997
—, detonator contg., 1,298,467
—, dissolving, sulfuric acid and manganese dioxide for, 1,360,271
—, distillation of, apparatus for, 1,242,339; 1,224,340
—, —, carbon for, 1,242,339; 1,242,340
—, —, carbon monoxide for, 1,242,339; 1,242,340
—, —, coal tar pitch for, 1,242,339; 1,242,340
—, —, coke for, 1,242,339; 1,242,340
—, —, graphite for, 1,242,339; 1,242,340
—, —, ore for, 1,242,339; 1,242,340
—, —, process for, 1,242,339; 1,242,340
—, electrode, carbon, protective coating for of, 1,314,603
—, —, electric furnace, protective coating for of, 1,314,603
—, —, graphite, protective coating for of, 1,314,603
—, electrodeposition of, alkali thiocyanate for, 1,194,438
—, —, bismuth sulfate for, 1,194,438
—, —, copper cathode for, 1,194,438
—, —, glycerol for, 1,194,438
—, —, potassium thiocyanate for, 1,194,438
—, —, process for, 1,194,438
—, —, sulfuric acid for, 1,194,438
—, electrolytic potential of, 1,397,514
—, extracting from ores, process for, 1,360,271
—, fat, animal, colloidal solution in of, mfr. of, process for, 1,189,696
—, —, vegetable, colloidal solution in of, mfr. of, process for, 1,189,696
—, ferro-chromium as refractory lining for furnaces for, 1,492,685
—, ferro-silicon as refractory lining for furnaces for, 1,492,685
—, ferro-vanadium as refractory lining for furnaces for, 1,492,685
—, fireproofing with compounds of, 1,418,609
—, galvanized iron colored with, 1,436,729
—, gold, removal of from, zinc for, 1,166,721
—, halogen compounds of, catalyst in sulfur-phenol resin formation, 1,435,801
Bismuth, hydrazo compounds made with, as catalyst, 1,451,489
—, iron, catalyst, made with, 1,489,497
—, lanolin, colloidal solution in of, mfr. of, process for, 1,189,696
—, lead and, separation of, 1,401,743; 1,428,041
—, lead alloy, hardening composition for contg., 1,502,425
—, lead alloy contg., 1,191,572
—, —, bearing made with, 1,341,938
—, —, catgut, sterile container for, made with, 1,191,572
—, —, container, sterile, made with, 1,191,572
—, —, electrical circuit protective device made with, 1,501,018
—, —, phonograph record matrix made with, 1,489,669
—, —, surgical ligature, sterile container for, made with, 1,191,572
—, lead bullion contg., removing from, 1,386,503
—, lead ores contg., treating, 1,430,270; 1,430,271
—, lithopone, darkening of because of impurities of, 1,140,354
—, metals, precious, coated with, 1,335,024
—, metal article made with, 1,223,322
—, mold contg., 1,454,064
—, mold-protecting coating contg., 1,454,068
—, colloidal solution in of, mfr. of, process for, 1,189,696
—, ore contg., antimony made with, 1,163,286
—, —, arsenic made with, 1,163,286
—, —, bismuth made with, 1,163,286
—, —, cadmium made with, 1,163,286
—, —, calcium sulfate made with, 1,163,286
—, —, copper made with, 1,163,286
—, —, iron made with, 1,163,286
—, —, zinc made with, 1,163,286
—, oxidizing, sodium nitrate and chlorine for, 1,354,806
—, paraffin, colloidal solution in of, mfr. of, process for, 1,189,696
—, platinum recovered from ore using, 1,126,646
—, position in electro-chemical series, 1,429,131
—, precipitating, iron for, 1,360,271
—, production of, air for, 1,144,402; 1,146,373; 1,163,236; 1,182,320; 1,188,705
—, —, alkali carbonate for, 1,144,402; 1,146,373
—, —, alkali earth carbonate for, 1,144,402
—, —, alkali earth hydroxide for, 1,144,402; 1,146,373
—, —, alkali earth oxide for, 1,144,402
—, —, alkali hydroxide for, 1,144,402
—, —, alkali oxide for, 1,144,402
—, —, ammonium sulfate for, 1,513,775
—, —, antimony ore for, 1,163,286; 1,188,705
—, —, apparatus for, 1,513,775
—, —, arsenic ore for, 1,163,286; 1,188,705
—, —, azureite for, 1,146,373
—, —, bag house dust for, 1,194,438
—, —, barium carbonate for, 1,144,402; 1,146,373
—, —, barium hydroxide for, 1,144,402; 1,146,373
—, —, barium oxide for, 1,144,402; 1,146,373
—, —, bismuth ore for, 1,163,286; 1,188,705; 1,477,321
—, —, bismuth oxychloride for, 1,477,321
—, —, bismutite for, 1,477,321

Bismuth, production of, bromine for, 1,245,137
—, —, cadmium ore for, 1,163,286; 1,188,705
—, —, calcium, ore contg., for, 1,163,286
—, —, calcium carbonate for, 1,144,402; 1,146,373; 1,163,286; 1,188,705
—, —, calcium chloride for, 1,144,402; 1,146.373
—, —, calcium hydroxide for, 1,144,402; 1,146,373; 1,163,286
—, —, calcium oxide for, 1,144,402; 1,146,373
—, —, carbonate ore for, 1,163,286; 1,188,705; 1,245,137
—, —, charcoal for, 1,477,321
—, —, chloride for, 1,144,402; 1,146,373
—, —, chlorine for, 1,144,402; 1,163,286; 1,188,705; 1,245,137
—, —, coal for, 1,513,775
—, —, coke for, 1,513,775
—, —, coke breeze for, 1,513,775
—, —, copper, ore contg., for, 1,163,286
—, —, copper carbonate for, 1,146,373
—, —, copper(ic) chloride for, 1,144,402; 1,146,373
—, —, copper(ous) chloride for, 1,144,402; 1,146,373
—, —, copper ore for, 1,144,402; 1,146,373; 1,188,705
—, —, copper sulfide ore for, 1,475,843
—, —, copper(ous) sulfite for, 1,146,373
—, —, cyanide for, 1,222,789
—, —, flue dust for, 1,182,320; 1,194,438
—, —, furnace products for, 1,194,438
—, —, galena for, 1,144,480
—, —, gold ore for, 1,163,286; 1,475,843
—, —, hydrochloric acid for, 1,477,321
—, —, hydrogen sulfide for, 1,144,402; 1,146,373
—, —, iron for, 1,146,373; 1,163,286; 1,475,843
—, —, iron(ous) carbonate for, 1,146,373
—, —, iron(ic) chloride for, 1,144,402; 1,146,373
—, —, iron(ous) chloride for, 1,144,402; 1,146,373
—, —, iron ore for, 1,146,375; 1,163,286; 1,188,705
—, —, iron(ic) sulfite for, 1,146,373
—, —, lead ore for, 1,144,480; 1,163,286; 1,188,705
—, —, lead smelter slag for, 1,146,373
—, —, lead sulfide ore for, 1,475,843; 1,513,775
—, —, limestone for, 1,163,286
—, —, magnesium carbonate for, 1,144,402; 1,146,373
—, —, magnesium chloride for, 1,144,402; 1,146,373
—, —, magnesium hydroxide for, 1,144,402; 1,146.373
—, —, magnesium oxide for, 1,144,402; 1,146,373
—, —, manganese ore for, 1,188,705
—, —, metal carbonate for, 1,146,373
—, —, nitric acid for, 1,144,480
—, —, ore for, 1,163,286; 1,188,705; 1,194,438
—, —, oxide ore for, 1,163,286; 1,188,705; 1,245,137
—, —, oxygen for, 1,144,402; 1,146,373; 1,163,286; 1,188,705
—, —, potassium carbonate for, 1,144,402; 1,146,373
—, —, potassium chloride for, 1,146,373
—, —, potassium cyanide for, 1,475,843
Bismuth, production of, potassium hydroxide for, 1,144,402; 1,146,373
—, —, potassium oxide for, 1,144,402; 1,146,373
—, —, process for, 1,144,402; 1,144,480; 1,146,373; 1,163,286; 1,182,320; 1,188,705; 1,194,438; 1,222,789; 1,245,137; 1,475,843; 1,477,321; 1,513,775
—, —, pyrites for, 1,144,480
—, —, selenium for, 1,222,789
—, —, selenium compound for, 1,222,789
—, —, siderite for, 1,146,373
—, —, silver ore for, 1,163,286; 1,475,843
—, —, slag for, 1,144,402; 1,146,373
—, —, smelter fumes for, 1,188,705
—, —, sodium carbonate for, 1,144,402; 1,146,373; 1,477,321
—, —, sodium chloride for, 1,144,402; 1,146,373; 1,245,137; 1,475,843; 1,477,321
—, —, sodium hydroxide for, 1,144,402; 1,146,373
—, —, sodium hypochlorite for, 1.245,137
—, —, sodium oxide for, 1,144,402; 1,146,373
—, —, sodium sulfate for, 1,475,843; 1,477,321
—, —, strontium carbonate for, 1,144,402; 1,146,373
—, —, strontium hydroxide for, 1,144,402; 1,146,373
—, —, strontium oxide for, 1,144,402; 1,146,373
—, —, sulfide ore for, 1,144,480; 1,245,137; 1,475,843
—, —, sulfur dioxide for, 1,144,402; 1,146,373; 1,163,286; 1,188,705; 1,245,137; 1,477,321
—, —, sulfuric acid for, 1,182,320; 1,194,438; 1,475,843; 1,477,321; 1,513,775
—, —, zinc for, 1,475,843
—, —, zinc ore for, 1,146,373; 1,163,286; 1,188,705
—, —, zinc oxide for, 1,182,320
—, —, zinc sulfide ore for, 1,144,480; 1,475,843; 1,513,775
—, purification of, alkali for, 1,166,721
—, —, calcium chloride for, 1,318,335
—, —, calcium sulfide as by-product of, 1,318,335
—, —, carbon for, 1,166,721
—, —, magnesium chloride for, 1,318,335
—, —, magnesium sulfite as by-product of, 1,318,335
—, —, process for, 1,166,721; 1,318,335
—, —, sodium hydroxide for, 1,166,721
—, —, sulfates for, 1,166,721
—, —, sulfides for, 1,166,721
—, —, sulfur for, 1,166,721
—, —, sulfur as impurity in, 1,318,335
—, —, tellurium as impurity in, 1,318,335
—, —, zinc for, 1,166,721
—, recovery of, carbon for, 1,129,431
—, —, carbon dioxide for, 1,129,431
—, —, hydrochloric acid for, 1,129,431
—, —, manganese dioxide for, 1,129,431
—, —, potassium chromate for, 1,129,431
—, —, process for, 1,129,431
—, —, sodium bicarbonate for, 1,129,431
—, —, sodium hydroxide for, 1,129,431
—, —, sodium nitrate for, 1,129,431
—, —, sodium sulfide for, 1,129,431
—, —, sodium sulfite for, 1,129,431

Bismuth, recovery of, sulfur dioxide for, 1,129,431
—, removal from tin, 1,414,257; 1,414,259
—, removal from zinc sulfate solutions, 1,429,131
—, selenium removal of from, alkali for, 1,166,721
—, —, —, carbon for, 1,166,721
—, —, —, process for, 1,166,721
—, —, —, sodium hydroxide for, 1,166,721
—, —, —, sulfates for, 1,166,721
—, —, —, sulfides for, 1,166,721
—, —, —, sulfur for, 1,166,721
—, —, —, zinc for, 1,166,721
—, —, separation from of, 1,477,321
—, separating from lead, lead nitrate for, 1,389,511
—, silver, removal of from, carbon for, 1,166,721
—, —, —, process for, 1,166,721
—, —, —, sulfates for, 1,166,721
—, —, —, sulfides for, 1,166,721
—, —, —, zinc for, 1,166,721
—, slime, electrolytic, contg., separation from of, 1,305,787; 1,305,788
—, smelter fume, recovery from of, 1,496,410
—, sulfur, removal of from, alkali for, 1,166,721
—, —, —, sodium hydroxide for, 1,166,721
—, tellurium, removal of from, alkali for, 1,166,721
—, —, —, carbon for, 1,166,721
—, —, —, process for, 1,166,721
—, —, —, sodium hydroxide for, 1,166,721
—, —, —, sulfates for, 1,166,721
—, —, —, sulfides for, 1,166,721
—, —, —, sulfur for, 1,166,721
—, —, —, zinc for, 1,166,721
—, —, separation of from, 1,428,041; 1,477,321
—, tin, removal from of, 1,414,257
—, —, —, alkali for, 1,166,721
—, —, —, sodium hydroxide for, 1,166,721
—, —, —, zinc for, 1,166,721
—, —, separation of, from, 1,428,041
—, —, tin alloy contg., 1,483,327
—, —, electrical circuit protective device made with, 1,501,018
—, tin electrodeposition, action on, 1,466,126
—, tin ore contg., treating, 1,435,303; 1,461,957
—, vaseline, colloidal solution in of, mfr. of, process for, 1,189,696
—, volatilization of, apparatus for, 1,262,452; 1,262,453
—, —, chlorine for, 1,262,452; 1,262,453
—, —, process for, 1,262,452; 1,262,453
—, wax, colloidal solution in of, mfr. of, process for, 1,189,696
—, white metal made with, 1,248,925
—, Wood's metal contg., 1,517,370
—, zinc, removal of from, alkali for, 1,166,721
—, —, —, carbon for, 1,166,721
—, —, —, process for, 1,154,602; 1,166,721; 1,241,966
—, —, —, sodium hydroxide for, 1,166,721
—, —, —, sulfates for, 1,166,721
—, —, —, sulfides for, 1,166,721
—, —, —, sulfur for, 1,166,721
—, zinc electrodes prevented from corroding by, 1,393,739
—, zinc solutions contg., purifying, 1,382,494
Bismuth, zinc sulfate, removal from of, zinc dust for, 1,283,077; 1,283,078
Bismuth acetate, basic, catalyst of, 1,345,323
—, —, catalyst, oxidization, made with, 1,345,323
—, —, gas absorbent contg., 1,422,211
—, hopcalite made with, 1,345,323
Bismuth acetyl-salicylate, mfr. of, acetone for, 1,217,862
—, —, acetyl-salicylic acid for, 1,217,862
—, —, alcohol for, 1,217,862
—, —, alkali bicarbonate for, 1,217,862
—, —, alkali carbonate for, 1,217,862
—, —, alkali hydroxide for, 1,217,862
—, —, ammonium hydroxide for, 1,217,862
—, —, benzene for, 1,217,862
—, —, bismuth bicarbonate for, 1,217,862
—, —, bismuth borate for, 1,217,862
—, —, bismuth chloride for, 1,217,862
—, —, bismuth hydroxide for, 1,217,862
—, —, bismuth nitrate for, 1,217,862
—, —, bismuth nitrite for, 1,217,862
—, —, bismuth oxide for, 1,217,862
—, —, bismuth phosphate for, 1,217,862
—, —, bismuth silicate for, 1,217,862
—, —, bismuth sulfate for, 1,217,862
—, —, bismuth sulfite for, 1,217,862
—, —, ether for, 1,217,862
—, —, hydrocarbon for, 1,217,862
—, —, ligroin for, 1,217,862
—, —, process for, 1,217,862
—, —, water for, 1,217,862
Bismuth alloy, cadmium in, lamp, electric, filament for, made with, 1,230,869
—, —, tungsten filament made with, 1,230,869
—, condenser, electric, made with, 1,517,370
—, tungsten filament made with, 1,496,457
—, zinc in, platinum recovered ore using, 1,126,646
Bismuth aluminate, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Bismuth amalgam, zinc electrodes prevented from corroding by, 1,393,739
Bismuth bicarbonate, bismuth acetyl-salicylate made with, 1,217,862
Bismuth borate, bismuth acetyl-salicylate made with, 1,217,862
Bismuth cadmium amalgam, brush, electric, made with, 1,177,119
Bismuth carbonate, basic, catalyst of, 1,345,323
—, —, catalyst, oxidization, made with, 1,345,323
—, —, dissolving, sulfuric acid and brine for, 1,360,271
—, —, gas absorbent contg., 1,422,211
—, —, hopcalite made with, 1,345,323
—, —, *see also Bismutite*
Bismuth carbonate ore, sulfur dioxide smelter fumes absorbed using, 1,236,236
"Bismuth cement," antimony in, 1,487,125
—, arsenic in, 1,487,125
—, copper in, 1,487,125
—, production of, anode slime for, 1,487,125
—, —, apparatus for, 1,487,125
—, —, copper cathode for, 1,487,125
—, —, electrolytic process for, 1,487,125
—, —, hydrochloric acid for, 1,487,125

"Bismuth cement," production of, iron cathode for, 1,487,125
—, —, lead cathode for, 1,487,125
—, —, process for, 1,487,125
—, —, tin cathode for, 1,487,125
—, —, tin ore, Bolivian, for, 1,487,125
—, —, —, Colombian, for, 1,487,125
Bismuth chloride, alcohol for, dissolving, 1,385,229
—, aluminum chloride made with, 1,321,281
—, basic, formation of, 1,360,271
—, battery electrolyte contg., 1,393,739
—, bismuth acetyl-salicylate made with, 1,217,862
—, bismuth ?-hydroxy-?-hydroxymercuri-by-hydrocinnamate made with, 1,508,603
—, bismuth ?-hydroxymercuri-anthranilate made with, 1,508,603
—, bismuth 2-hydroxymercuri-benzoate made with, 1,508,603
—, bismuth ?-hydroxymercuri-camphocarboxylate made with, 1,508,603
—, bismuth ?-hydroxymercuri-?-naphthoate made with, 1,508,603
—, bismuth 3-hydroxymercuri-salicylate made with, 1,508,603
—, bismuth oxide, absorbent, made with, 1,520,305
—, —, catalyst made with, 1,520,305
—, catalyst, bismuth oxide as, made with, 1,520,305
—, China wood oil sclidified with, 1,383,864
—, flooring made with, 1,383,864
—, formation from bismuth, sulfate and sodium chloride, 1,360,271
—, formation from ore by treating with sodium chloride, 1,360,271
—, ?-hydroxymercuri-atophan, bismuth salt of, made with, 1,508,603
—, *N*-(?-hydroxymercuri-phenyl)-glycine, bismuth, salt of, made with, 1,508,603
—, iron rust-proofing of with, 1,317,351
—, mirrors made from platinum and, 1,385,229
—, molded article made with, 1,383,864
—, solvent for, acetone as, 1,383,864
—, steel rust-proofing of with, 1,317,351
—, sulfur trioxide, catalyst for the mfr. of, made with, 1,204,141
—, therapeutic compound made with, 1,508,603
—, tile made with, 1,383,864
—, tung oil, solidified, made with, 1,383,864
—, volatilizing, 1,360,271
Bismuth chromate, catalyst, ammonia, oxidation of, with, 1,322,291
—, —, nitrogen oxides, mfr. of with, 1,322,291
Bismuth colloid, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Bismuth compound, catalyst, iron as, made with, 1,489,497
—, catalyst poisons, 1,489,497; 1,510,598
—, catalyst poison for, ammonia mfr., 1,148,570; 1,152,930
—, copper, removal from of, 1,232,080
—, copper sulfate, removal from of, 1,232,080
Bismuth compound, glass, enamel, opaque, made with, 1,314, 831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
—, iron, catalyst, made with, 1,489,497
—, lithopone darkened because of impurities of, 1,139,427
—, mfr. of, alizarin-sulfonic acid, sodium salt of, for, 1,494,943
—, —, bismuth hydroxide for, 1,494,943
—, —, bismuth subnitrate for, 1,494,943
—, —, hydroxy-anthraquinine-sulfonic acids for, 1,494,943
—, —, hydroxy-naphthoquinone-sulfonic acids for, 1,494,943
—, —, process for, 1,494,943
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,207,706; 1,207,707; 1,207,708; 1,211,394
—, sulfuric acid, catalyst for the mfr. of, made with, 1,227,044
—, sulfur trioxide, catalyst for the mfr. of, made with, 1,227,044
—, wood, fungi, preservation from attacking by of with composition contg., 1,182,760
—, —, insects, preservation from attacks of by with composition contg., 1,182,760
—, —, molds, preservation from attacks by of with composition contg., 1,182,760
—, —, parasites, preservation from attacks by of with composition contg., 1,182,760
—, —, teredo, preservation from attacks by of with composition contg., 1,182,760
Bismuth dichloride, celluloid rendered irridescent with, 1,372,088
Bismuth dioxide (Bi_2O_4), lightning arrester made with, 1,238,660
Bismuth dithiosalicylate, see Thioform
Bismuth electrode, bismuth, colloidal, made with, 1,491,250
—, nitric acid made with, 1,334,590
—, nitrogen oxide made with, 1,334,590
—, nitrous acid made with, 1,334,590
Bismuth ferricyanide, catalyst activating agent, 1,425,576
Bismuth ferrocyanide, albumen, tinting of with, 1,279,276
—, catalyst activating agent, 1,425,576
—, cellulose, tinting of with, 1,279,276
—, cellulose derivative, tinting of with, 1,279,276
—, dextrin, tinting of with, 1,279,276
—, film, photographic, tinting of with, 1,279,276
—, gelatin, tinting of with, 1,279,276
—, gum, tinting of with, 1,279,276
—, photography, color, motion, film for, tinting of with, 1,279,276
—, starch, soluble, tinting of with, 1,279,276
Bismuth gallate, bismuth organic acids, mercury salt of, made with, 1,515,495
—, syphilis, compound for treatment of, made with, 1,515,495
Bismuth glance, see Bismuth sulfide
Bismuth halide, lamp, vapor electric, made with, 1,176,630; 1,176,661
—, resin, artificial, made with, 1,435,801
Bismuth hydrogen phosphate, iron rustproofed with, 1,388,325

Bismuth hydroxide, bismuth acetyl-salicylate made with, 1,217,862
—, bismuth compound made with, 1,494,943
—, bismuth oxide, absorbent, made with, 1,520,305
—, —, catalyst, made with, 1,520,305
—, bismuth 8-quinolinolate made with, 1,485,380
—, catalyst, bismuth oxides made with, 1,520,305
—, disinfectant made with, 1,494,943
—, dyestuff made with, 1,494,943
—, enamel, opaque, made with, 1,314,831
—, formation of, 1,360,271
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,211,394
—, reducing, carbon for, 1,360,271
Bismuth ?-hydroxy-?-hydroxymercuri-hydrocinnamate, mfr. of, bismuth chloride for, 1,508,603
—, —, hydrochloric acid for, 1,508,603
—, —, process for, 1,508,603
—, —, sodium ?-hydroxy-?-hydroxymercuri-hydrocinnamate for, 1,508,603
—, properties of, 1,508,603
—, therapeutic properties of, 1,508,603
Bismuth hydroxymercuri-acetate, mfr. of, bismuth nitrate for, 1,508,603
—, —, hydroxymercuri-acetic anhydride for, 1,508,603
—, —, nitric acid for, 1,508,603
—, —, process for, 1,508,603
—, —, sodium hydroxide for, 1,508,603
—, properties of, 1,508,603
—, therapeutic properties of, 1,508,603
Bismuth ?-hydroxymercuri-anthranilate, mfr. of, bismuth chloride for, 1,508,603
—, —, hydrochloric acid for, 1,508,603
—, —, ?-hydroxymercuri-anthranilic anhydride for, 1,508,603
—, —, process for, 1,508,603
—, —, sodium hydroxide for, 1,508,603
—, properties of, 1,508,603
—, therapeutic properties of, 1,508,603
Bismuth 2-hydroxymercuri-benzoate, mfr. of, bismuth chloride for, 1,508,603
—, —, hydrochloric acid for, 1,508,603
—, —, 2-hydroxymercuri-benzoic acid for, 1,508,603
—, —, process for, 1,508,603
—, —, sodium hydroxide for, 1,508,603
—, properties of, 1,508,603
—, therapeutic properties of, 1,508,603
Bismuth ?-hydroxymercuri-camphocarboxylate, mfr. of, bismuth chloride for, 1,508,603
—, —, hydrochloric acid for, 1,508,603
—, —, process for, 1,508,603
—, —, sodium ?-hydroxymercuri-camphocarboxylate for, 1,508,603
—, properties of, 1,508,603
—, therapeutic properties of, 1,508,603
Bismuth ?-hydroxymercuri-?-naphthoate, mfr. of, bismuth chloride for, 1,508,603
—, —, hydrochloric acid for, 1,508,603
—, —, process for, 1,508,603
Bismuth ?-hydroxymercuri-?-naphthoate, mfr. of, sodium ?-hydroxymercuri-?-naphthoate for, 1,508,603
—, properties of, 1,508,603
—, therapeutic properties of, 1,508,603
Bismuth *o*-hydroxymercuri-phenoxy-acetate, mfr. of, bismuth nitrate for, 1,508,603
—, —, *o*-hydroxymercuri-phenoxy-acetic anhydride for, 1,508,603
—, —, nitric acid for, 1,508,603
—, —, process for, 1,508,603
—, —, sodium hydroxide for, 1,508,603
—, properties of, 1,508,603
—, therapeutic properties of, 1,508,603
Bismuth N-(?-hydroxymercuri-phenyl)-glycine see N-(?-hydroxymercuri-phenyl)-glycine, bismuth salt of
Bismuth 3-hydroxymercuri-salicylate, mfr. of, bismuth chloride for, 1,508,603
—, —, hydrochloric acid for, 1,508,603
—, —, 3-hydroxymercuri-salicylic anhydride for, 1,508,603
—, —, process for, 1,508,603
—, —, sodium hydroxide for, 1,508,603
—, properties of, 1,508,603
—, therapeutic properties of, 1,508,603
Bismuth ?-hydroxymercuri-?-sulfo-salicylate, mfr. of, bismuth nitrate for, 1,508,603
—, —, nitric acid for, 1,508,603
—, —, process for, 1,508,603
—, —, sodium ?-hydroxymercuri-?-sulfo salicylate for, 1,508,603
—, properties of, 1,508,603
—, therapeutic properties of, 1,508,603
Bismuth-8-hydroxy-quinolate, see Bismuth 8-quinolate
Bismuthinite, resistance element, light-sensitive, 1,316,220
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Bismuth nickel, see Bismuth sulfide (Bi_2S_3)
Bismuthite, see Bismuth carbonate
Bismuth nitrate, albumen, tinting of with, 1,279,276
—, aluminum ornamented by, 1,370,967
—, bismuth acetyl-salicylate made with, 1,217,862
—, bismuth hydroxymercuri-acetate made with, 1,508,603
—, bismuth *o*-hydroxy mercury-phenoxy-acetate made with, 1,508,603
—, bismuth ?-hydroxymercuri-?-sulfo-salicylate made with, 1,508,603
—, button "bark," pearl, whitened with, 1,312,723
—, carbon, catalyst, made with, 1,520,437
—, catalyst, carbon, made with, 1,520,437
—, cellulose, tinting of with, 1,279,276
—, cellulose derivative, tinting of with, 1,279,276
—, charcoal, activated, made with, 1,520,437
—, dextrin, tinting of with, 1,279,276
—, film, photographic, tinting of with, 1,279,276
—, gelatin, tinting of with, 1,279,276
—, gum, tinting of with, 1,279,276
—, iron rust-proofing of with, 1,317,351
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,207,706; 1,207,707; 1,207,708; 1,211,394

Bismuth nitrate, phosphorescent compound made with, 1,244,058
—, photographic, color, motion, film for, tinting of with, 1,279,276
—, starch, soluble, tinting of with, 1,279,276
—, steel rust-proofing of with, 1,317,351
—, therapeutic compound made with, 1,508,603
Bismuth nitride, ammonia synthesis with, 1,396,557
Bismuth nitrite, bismuth acetyl-salicylate made with, 1,217,862
Bismuth ore, arsenic made with, 1,188,705
—, bismuth made with, 1,188,705; 1,477,321
—, bismuth oxychloride made with, 1,477,321
—, cadmium made with, 1,188,705
—, copper made with, 1,188,705
—, gold made with, 1,188,705
—, iron made with, 1,188,705
—, lead made with, 1,188,705
—, manganese dioxide made with, 1,188,705
—, silver made with, 1,188,705
—, treatment of, apparatus for, 1,262,452; 1,262,453
—, —, chlorine for, 1,262,452; 1,262,453
—, —, process for, 1,262,452; 1,262,453
—, zinc made with, 1,188,705
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Bismuth organic acids, mercury salt of, mfr. of, alcohol for, 1,515,495
—, —, —, bismuth gallate for, 1,515,495
—, —, —, bismuthylnucleic acid for, 1,515,495
—, —, —, mercury(ic) chloride for, 1,515,495
—, —, —, mercury(ic) nitrate for, 1,515,495
—, —, —, nitric acid for, 1,515,495
—, —, —, potassium bismuthyltartrate for, 1,515,495
—, —, —, process for, 1,515,495
—, —, —, sodium bismuthyltartrate for, 1,515,495
—, —, —, sodium hydroxide for, 1,515,495
Bismuth oxide, absorbent, mfr. of, air for, 1,520,305
—, —, —, bismuth chloride for, 1,520,305
—, —, —, bismuth hydroxide for, 1,520,305
—, —, —, bismuth salts for, 1,520,305
—, —, —, process for, 1,520,305
—, —, —, sodium hydroxide for, 1,520,305
—, aluminum, enamel for, made with, 1,230,958
—, aluminum alloy made with, 1,230,958
—, battery, dry, made with, 1,195,677
—, bismuth acetyl-salicylate made with, 1,217,862
—, bismuth chloride from, 1,360,271
—, carbon, activated, made with, 1,520,437
—, catalyst of, 1,345,323; 1,366,176
—, catalyst, ammonia oxidized with, 1,318,936
—, —, benzaldehyde made with, 1,284,887
—, —, benzoic acid made with, 1,284,887
—, —, mfr. of, air for, 1,520,305
—, —, —, bismuth chloride for, 1,520,305
—, —, —, bismuth hydroxide for, 1,520,305
—, —, —, bismuth salts for, 1,520,305
—, —, —, process for, 1,520,305
—, —, —, sodium hydroxide for, 1,520,305
—, —, oxidization, made with, 1,345,323
—, —, phthalic anhydride made with, 1,489,741
—, catalyst in gas purification, 1,418,246
—, cement, dental, made with, 1,226,232
—, enamel, opaque, made with, 1,314,831
Bismuth oxide, gas absorbent contg., 1,422,211
—, glass, gold ornamented, made with, 1,205,728
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
—, gold, glass ornamented with, made with, 1,205,728
—, hopcalite made with, 1,345,323
—, mfr. of, process for, 1,318,336
—, metals, precious, coated with, 1,335,024
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,207,706; 1,207,707; 1,207,708; 1,211,394
—, phthalic anhydride, catalyst for the mfr. of, made with, 1,489,741
—, picture produced on enamelled surfaces with, 1,335,755
—, preparing, sodium nitrate and chlorine for, 1,354,806
—, rustproofing using, 1,493,012
—, sulfur trioxide, catalyst for the mfr. of, made with, 1,204,141
—, yellow, mfr. of, bismuth for, 1,318,336
—, —, —, process for, 1,318,336
—, —, *see also Bismuth trioxide*
—, (Bi_2O_3), mfr. of, bismuth for, 1,354,806
—, —, —, chlorine for, 1,354,806
—, —, —, peroxide for, 1,354,806
—, —, —, potassium nitrate for, 1,354,806
—, —, —, process for, 1,354,806
—, —, —, sodium chlorate for, 1,354,806
—, —, —, sodium nitrate for, 1,354,806
Bismuth oxide ore, sulfur dioxide smelter fumes absorbed using, 1,236,236
Bismuth oxychloride, bismuth made with, 1,477,321
—, mfr. of, bismuth ore for, 1,477,321
—, —, bismuth trioxide for, 1,477,321
—, —, bismutite for, 1,477,321
—, —, hydrochloric acid for, 1,477,321
—, —, process for, 1,477,321
—, —, sodium chloride for, 1,477,321
—, —, sulfuric acid, 1,477,321
—, polish contg., 1,411,353
Bismuth oxiodide, antiseptic made with, 1,150,654
—, astringent made with, 1,150,654
—, 5-brom-6-hydroxyquinoline, compound of and, 1,129,865
—, 5-brom-8-hydroxyquinoline, compound of and, 1,129,865
—, 5.7-dibrom-8-hydroxyquinoline, compound of and, 1,129,865
—, gallocarbocylic acid, bismuth and iodine compound of, made with, 1,150,654
—, hydroxyquinoline, derivatives of, compound of and, 1,129,865
—, 6-hydroxyquinoline, compound of and, 1,129,865
—, 7-hydroxyquinoline, compound of and, 1,129,865
—, 8-hydroxyquinoline, compound of and, 1,129,865
—, 7-iodo-5-methyl-8-hydroxyquinoline, compound of and, 1,129,865
Bismuth 8-oxyquinolate, see Bismuth 8-quinolinolate

Bismuth phosphate, bismuth acetyl-salicylate made with, 1,217,862
—, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Bismuth potassium iodide, hypophysis extract, action on of, 1,296,063
Bismuth 8-quinolinolate, antiseptic, 1,485,380
—, mfr. of, bismuth for, 1,485,380
—, —, bismuth hydroxide for, 1,485,380
—, —, bismuth subnitrate for, 1,485,380
—, —, nitric acid for, 1,485,380
—, —, process for, 1,485,380
—, —, 8-quinolinol for, 1,485,380
—, —, 8-quinolinol sulfate for, 1,485,380
—, —, sodium hydroxide for, 1,485,380
—, properties of, 1,485,380
—, therapeutic compound, 1,485,380
Bismuth salts, bismuth oxide, absorbent, made with, 1,520,305
—, —, catalyst, made with, 1,520,305
—, catalyst, bismuth oxides, made with, 1,520,305
—, —, oxidation, made with, 1,345,323
—, finger print, taking of, using, 1,501,841
—, hopcalite made with, 1,345,323
—, lead grid, storage battery, coated with, 1,304,852
—, mirrors made from platinum and, 1,385,229
Bismuth silicate, bismuth acetyl salicylate made with, 1,217,862
—, enamel, opaque, made with, 1,314,831
—, glass, milk, made with, 1,314,831
—, —, opaque, made with, 1,314,831
—, glaze, opaque, made with, 1,314,831
Bismuth-silver couple, thermocouple for detecting infra-red radiations contg., 1,343,393
Bismuth subcarbonate, anti-static photographic film contg., 1,431,900; 1,434,453
—, film, photographic, made with, 1,431,900; 1,434,453
Bismuth subnitrate, bismuth compound made with, 1,494,943
—, bismuth 8-quinolate made with, 1,485,380
—, disinfectant made with, 1,494,943
—, dyestuff made with, 1,494,943
—, film, X-ray, identified by composition contg., 1,396,415
—, pyorrhea treated using, 1,516,140
—, tire puncture-healing composition made with, 1,203,720
—, X-rays stopped by, 1,396,415
Bismuth sulfate, basic, catalyst of, 1,345,323
—, —, —, oxidation made with, 1,345,323
—, —, gas absorbent contg., 1,422,211
—, —, hopcalite made with, 1,345,323
—, —, production of, alkali carbonate for, 1,185,005
—, —, —, anode slime for, 1,185,005
—, —, —, flue dust for, 1,185,005
—, —, —, process for, 1,185,005
—, —, —, sodium carbonate for, 1,185,005
—, —, —, sulfuric acid for, 1,185,005
—, bismuth, electrodeposition of using, 1,194,438
Bismuth sulfate, bismuth acetyl-salicylate made with, 1,217,862
—, dissolving, sodium chloride and sulfuric acid for, 1,360,271
—, formation of, 1,360,271
—, iron rust-proofing of with, 1,317,351
—, mfr. of, lead sulfide ore for, 1,473,193
—, —, process for, 1,194,438; 1,473,193
—, —, sulfuric acid for, 1,473,193
—, —, sulfur trioxide for, 1,473,193
—, —, zinc sulfide ore for, 1,473,193
—, steel rust-proofing of with, 1,317,351
Bismuth sulfide, albumen, tinting of with, 1,279,276
—, battery, electric, contg., 1,316,760
—, bismuth chloride from, 1,360,271
—, cellulose, tinting of with, 1,279,276
—, cellulose derivative, tinting of with, 1,279,276
—, decomposing with heat, compressed air and alkali acid salt, 1,364,804
—, dextrin, tinting of with, 1,279,276
—, dissolving, 1,378,485
—, dissolving with heat, compressed air and alkali acid salt, 1,364,804
—, film, photographic, tinting of with, 1,279,276
—, gelatin, tinting of with, 1,279,276
—, gum, tinting of with, 1,279,276
—, photography, color, motion, film for, tinting of with, 1,279,276
—, starch, soluble, tinting of with, 1,279,276
—, transposing with heat, compressed air and alkali acid salt, 1,364,804
—, treatment of, hydrochloric acid for, 1,378,485
—, —, nitric acid for, 1,378,485
—, —, process for, 1,378,485
—, —, sulfuric acid for, 1,378,485
Bismuth sulfide ore, sulfur dioxide smelter fumes absorbed using, 1,236,236
Bismuth sulfite, bismuth acetyl salicylate made with, 1,217,862
Bismuth titanate, treatment of, hydrochloric acid for, 1,378,485
—, —, nitric acid for, 1,378,485
—, —, process for, 1,378,485
—, —, sulfuric acid for, 1,378,485
Bismuth trichloride, celluloid rendered iridescent with, 1,372,088
—, gas, hydrogen sulfide, determination of in, using, 1,512,893
—, hydrogen sulfide, gas, determination in of, using, 1,512,893
—, —, illuminating gas, determination in of, using, 1,512,893
Bismuth trioxide, bag house dust contg., 1,194,438
—, bismuth oxychloride made with, 1,477,321
—, mfr. of, process for, 1,194,438
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Bismuth trisulfide, resistance element, light-sensitive, 1,316,220
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Bismuth xanthate, flotation process using, 1,512,139
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Bismuthylnucleic acid, bismuth organic acids, mercury salt of, made with, 1,515,495

Bismuthylnucleic acid, syphilis, compound for treatment of, made with, 1,515,495
Bismuth zinc amalgam, see Mercury-bismuth-zinc amalgam
Bismutite, bismuth made with, 1,477,321
—, bismuth oxychloride made with, 1,477,321
—, *see also Bismuth ore; Bismuth carbonate, basic*
Bis(3-nitro-phenyl)-methane, dyestuff made with, 1,362,936
Bisoxynaphthoyl-2.6-toluylenediamine-4-carboxylic acid, see 3.5-Bis(3'-hydroxy-2'-naphthoylamino)-p-toluic acid
Bisoxynaphthoyl-2.6-toluylenediamine-4-sulfonic acid, see 3.5-Bis(3'-hydroxy-2'-naphthoylamine)-p-toluenesulfonic acid
Bis-oxythiophenes, preparing, 1,444,277
Bis-(phenoxyethyl)-malonic acid, ethyl ester of, see Diethyl bis-(phenoxyethyl)-malonate
1.4-Bis-phenyl-amino-anthraquinone, see 1.4-Dianilino-anthraquinone
a.d-B.s-(phenyl-carboxy-methyl)-amino)-n-butane, see N.N'-Tetramethylene-bis-(a-amino-a-toluic acid)
Bis-phenyl ether, see Phenyl ether
Bistetrazole, see Bitetrazole
Bisulfate, anthraquinone sulfonic acids, salt of, made with, 1,260,535
—, anthraquinone-1-sulfonic acid, salt of, made with, 1,260,535
—, anthraquinone-2-sulfonic acid, salt of, made with, 1,260,535
—, bacteria, food stuff for contg., 1,472,344
—, beryllium carbonate made with, 1,216,980; 1,216,981
—, beryllium hydroxide made with, 1,216,980; 1,216,981
—, beryllium oxide made with, 1,216,980; 1,216,981
—, brass, pickling of using, 1,206,220
—, cellulose acetate (acetone soluble), made with, 1,241,995
—, cigarette holder made with, 1,482,357
—, cloth, cement for, made with, 1,482,357
—, copper, pickling of using, 1,206,220
—, copper alloy, pickling of using, 1,206,220
—, ethyl alcohol made with, 1,428,217; 1,472,344
—, ethylidene diacetate decomposed by, 1,429,650
—, ferments, food stuff for contg., 1,472,344
—, filament, artificial, viscose, precipitation of, using, 1,214,931
—, formaldehyde-urea condensate made with, 1,482,357
—, fungi, food stuff for contg., 1,472,344
—, 2-furaldehyde made with, 1,428,217
—, glucose made with, 1,428,217
—, handle made with, 1,482,357
—, humic substance made with, 1,472,344
—, ivory, imitation, made with, 1,482,357
—, ivory substitute made with, 1,482,357
—, methyl alcohol made with, 1,428,217
—, molds, food stuff for contg., 1,472,344
—, molded article made with, 1,482,357
—, mucors, food stuff for contg., 1,472,344
—, ornament made with, 1,482,357
Bisulfate, paint made with, 1,216,980; 1,216,981
—, paper, cement for, made with, 1,482,357
—, pigment made with, 1,216,980; 1,216,981
—, pipe bowl made with, 1,482,357
—, pipe stem made with, 1,482,357
—, silk, artificial, viscose, precipitation of, using, 1,214,931; 1,393,197; 1,471,513
—, sodium cresylate acidulated with, 1,445,668
—, souring compound made with, 1,186,300
—, titanium compounds made with, 1,341,307
—, "trioxidol" made with, 1,186,300
—, urea-formaldehyde condensate made with, 1,482,357
—, varnish made with, 1,482,357
—, viscose, precipitation of, using, 1,214,931
—, yeast, food stuff for contg., 1,472,344
—, zirconium carbonate, basic made with, 1,216,980; 1,216,981
—, zirconium oxide made with, 1,216,980; 1,216,981
—, zirconium sulfate made with, 1,216,980; 1,216,981
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Bisulfide, galena separated from zinc blende with, 1,274,505
Bisulfite, alkali hyposulfite made with, 1,477,130
—, alkali iodide made using, 1,249,863
—, bacteria, food stuff for contg., 1,472,344
—, carbon, decolorizing, regeneration of using, 1,327,222
—, catalysts in cellulose saccharification, 1,428,217
—, cellulose, bleaching of using, 1,470,556
—, —, sulfite, made using, 1,240,920
—, cellulose sulfite, bleaching of using, 1,470,556
—, cellulose pulp made with, 1,327,221
—, cellulose sulfite liquor contg., 1,218,638
—, coating composition made with, 1,355,985
—, diastase made with, 1,153,640
—, dyestuff made with, 1,505,912
—, ethyl alcohol made with, 1,428,217; 1,472,344
—, ferments, food stuff for contg., 1,472,344
—, fertilizer made using, 1,144,405; 1,249,863
—, flax, treatment before bleaching of with, 1,143,543
—, flotation process using, 1,274,505
—, foods bleached with, 1,412,523
—, formaldehyde compound of, animal fibers treated with, 1,466,748
—, formaldehyde-sulfurous acid, aluminum salt of, made with, 1,149,712
—, fungi, food stuff for contg., 1,472,344
—, 2-furaldehyde made with, 1,428,217
—, glucose made with, 1,428,217
—, hemp, treatment before bleaching of with, 1,143,543
—, hide tanned with, 1,281,494
—, humic substance made with, 1,472,344
—, hyposulfite made with, 1,472,828; 1,477,130
—, iodine made using, 1,249,863
—, isatin-*a*-arylides prepared with, 1,427,863
—, jute, treatment before bleaching of with, 1,143,543
—, leather, artificial, made with, 1,355,985
—, linen, bleaching of, using, 1,501,553

Bisulfite, mfr. of, apparatus for, 1,147,376; 1,165,281; 1,224,578; 1,315,811
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—, —, gas purification for, 1,301,372; 1,301,373
—, —, niter cake for, 1,315,811
—, —, process for, 1,147,376; 1,224,578
—, —, sulfur for, 1,147,376
—, —, sulfur dioxide for, 1,224,578
—, —, sulfuric acid for, 1,315,811
—, —, sodium bisulfate for, 1,315,811
—, methyl alcohol made with, 1,428,217
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—, mucors, food stuff for contg., 1,472,344
—, oil cloth, imitation, made with, 1,355,985
—, paper made with, 1,169,597; 1,455,471
—, potassium iodide made using, 1,249,863
—, rosin deodorized with, 1,373,044
—, silk, artificial, viscose, spinning of using, 1,422,412
—, —, viscose, precipitation of using, 1,471,513
—, sodium hyposulfite made with, 1,472,828 1,477,130
—, sodium iodide made using, 1,249,863
—, souring compound made with, 1,186,300
—, sugar juice, defecating of using, 1,486,091
—, sulfides from, 1,443,077
—, tanning using, 1,221,929
—, tetrachlor-benzaldehyde made with, 1,428,984
—, textile, treatment before bleaching of with, 1,143,543
—, "trioxidol" made with, 1,186,300
—, viscose made with, 1,355,985
—, wood treated with, 1,402,201
—, wood pulp made with, 1,169,597
—, wood pulp, sulfite, bleaching of using, 1,470,556
—, yeast, food stuff for contg., 1,472,344
—, zinc blende separated from galena with, 1,472,828
—, zinc hyposulfiate made with, 1,472,828
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Bisulfite liquor, see Calcium bisulfite
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Bitartrate, steel tinplated with, 1,396,051
Bi-*d*-tartrate, baking powder made with, 1,214,726
Bi-*dl*-tartrate, baking powder made with, 1,214,726
Bi-*l*-tartrate, baking powder made with, 1,214,726
Bi-*meso*-tartrate, baking powder made with, 1,214,726
Bitetrazole, alkali earth salt of, detonator made with, 1,511,771
—, alkali salt of, detonator made with, 1,511,771
—, cadmium salt of, detonator made with, 1,511,771
—, detonator made with, 1,511,771
—, lead salt of, detonator made with, 1,511,771
—, metal salt of, detonator made with, 1,511,771
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Bitter almond oil, healing composition contg., 1,331,690
—, solvent for, acetine as, 1,378,099
—, *see also Benzaldehyde; Nitrobenzene*
Bitter almond oil camphor, see Benzoïn
Bitter almond oil chloride, see a.a-Dichlor-toluene
Bitter-almond-oil green, see Malachite green
Bitter ash, see Quassia
Bittern, magnesium carbonate from, 1,298,932
—, potassium compounds made with, 1,354,727
—, potassium salts extracted from, 1,422,571
Bitter orange, extraction of valuable principles from, process for, 1,167,006
Bitter root, see Gentian
Bitter weed, tanning compound made with, 1,210,259
Bitter wood, see Quassia
Bitumen, alkali silicate, water-proof cement product made with, 1,283,546
—, antimony made with, 1,243,681
—, arsenic made with, 1,243,681
—, asphalt made with, 1,176,006; 1,385,511
—, balsade palmo wood, treatment of using, 1,203,577
—, —, waterproofing of using, 1,203,577
—, barium hydroxide made with, 1,238,242
—, battery, dry, made with, 1,303,843
—, —, storage, separator for, made with, 1,500,220
—, belting, coating for contg., 1,305,222
—, binder contg., 1,258,272
—, binder, waterproof, made with, 1,258,103
—, bituminous emulsion made with, 1,417,835; 1,517,075
—, bituminous material made with, 1,417,835; 1,506,371
—, block made with, 1,320,709
—, board, artificial, made with, 1,334,061
—, bone black made with, 1,516,289
—, brass, briquets, of, made with, 1,123,719
—, brick made with, 1,320,709
—, brick, impregnation of with, apparatus for, 1,176,284
—, —, —, process for, 1,176,284
—, briquettes made with, 1,123,719; 1,479,822
—, bronze powder binder, 1,465,107
—, building block made with, 1,265,655
—, building material made with, 1,505,206
—, burial vault made with, 1,478,769
—, cable, coating for contg., 1,305,222
—, calcium carbide, blocks of, made with, 1,486,618
—, calcium hydroxide, waterproof cement product of made with, 1,283,546
—, calcium oxide, water-proof cement product of made with, 1,283,546
—, caoutchouc composition contg., 1,437,487
—, carbon, absorptive, made with, 1,497,543; 1,497,544
—, —, decolorizing, made with, 1,478,986; 1,478,987
—, carbon black from, 1,423,193
—, casein composition made with, 1,437,487
—, cement made with, 1,258,103
—, cement contg., 1,296,083

Bitumen, cement, hydraulic, waterproofing of using, 1,134,573
—, —, —, water-proof cement product of made with, 1,283,546
—, —, natural, water-proof cement product of made with, 1,283,546
—, —, Portland, water-proof cement product of made with, 1,283,546
—, —, waterproof cement product of made with, 1,283,546
—, —, waterproofing of using, 1,134,573; 1,205,735
—, —, waterproofing, composition for made with, 1,149,519
—, chains, coating for contg., 1,305,222
—, charcoal, artificial, made with, 1,478,986; 1,478,987
—, charcoal briquettes made with, 1,479,822
—, clutch facing made with, 1,270,559
—, coal, brown, briquetting of using, 1,205,007
—, coal briquettes made with, 1,123,719; 1,458,716; 1,479,822
—, coal gas enriched with, 1,313,514
—, coating composition made with, 1,334,061
—, colloidal, producing, 1,437,775
—, concrete, expansion joint for, made with, 1,329,631; Re-15,840
—, —, water-proofing of using, 1,134,573
—, conduit, electric, made with, 1,505,206
—, disinfectant made with, 1,457,708
—, distillation of, apparatus for, 1,283,723
—, —, products of, condensing, 1,455,546
—, distilling in vacuo, 1,334,060
—, dust layer contg., 1,450,685
—, *elastic, see Elaterite*
—, electrode made with, 1,489,830
—, emulsified, road building with, Re-15,401 (956,009)
—, —, road paving made with, 1,215,273
—, —, shingle waterproofed with, 1,448,155
—, emulsified composition made with, 1,469,563
—, emulsifying, Re-15,401 (956,009)
—, —, process for, 1,440,356
—, emulsion, bituminous, made with, 1,258,103
—, emulsion contg., mfr. of, 1,464,928
—, emulsion of clay and, preparing, 1,398,201
—, emulsion sulfite liquor and, mfr. of, 1,450,685
—, enamel made with, 1,205,845
—, expansion joint made with, 1,248,909; 1,329,631; Re-15,840
—, fiber board made with, 1,490,362
—, filamentary form, insulation, heat, made with, 1,289,892
—, —, mfr. of, apparatus for, 1,289,892
—, —, —, talc for, 1,289,892
—, floor covering made with, 1,184,584; 1,302,810
—, flooring made with, 1,506,371
—, flotation agent prepared with, 1,457,708
—, flotation process using, 1,457,708
—, flotation of ores by distillation products of, 1,398,989
—, friction facing made with, 1,275,043
—, friction material ingredient, 1,429,267
—, gears, coating for contg., 1,305,222
—, glove, acid resistant, made with, 1,500,097
—, gravel briquettes made with, 1,479,822
—, grit briquettes made with, 1,479,822
Bitumen, grouting made with, 1,237,921
—, gypsum, waterproof cement product of made with, 1,283,546
—, hydrogen sulfide made with, 1,243,681
—, hydrogenating, formates for, 1,445,423
—, insulating board contg., 1,449,221
—, insulation made with, 1,248,909
—, insulation, electric, made with, 1,334,060; 1,334,061
—, iron, cast, impregnation of with, 1,511,063
—, —, rust-proofing of, using, 1,147,971
—, leather, artificial, made with, 1,517,892
—, —, water-proofing of, using, 1,167,327
—, leather board made with, 1,469,563
—, lignite, briquetting of using, 1,205,007
—, lime, water-proof cement product of made with, 1,283,546
—, limestone contg., 1,391,710
—, magnesium oxychloride, waterproof cement product of made with, 1,283,546
—, mfr. of, apparatus for, 1,514,162
—, —, bituminous sandstone for, 1,514,162
—, —, bituminous shale for, 1,514,162
—, —, coal tar for, 1,282,505
—, —, coal tar pitch for, 1,282,505
—, —, oil sand for, 1,514,162
—, —, process for, 1,282,505; 1,334,060; 1,404,435; 1,514,162
—, —, tar sand for, 1,514,162
—, mercury made with, 1,243,681
—, metal coated using, 1,243,808; 1,289,537
—, minerals, recovery from of, apparatus for, 1,520,752
—, —, —, benzene for, 1,520,752
—, —, —, process for, 1,520,752
—, —, —, sodium chloride for, 1,520,752
—, —, —, sodium sulfate for, 1,520,752
—, —, —, steam for, 1,520,752
—, —, —, toluene for, 1,520,752
—, —, —, water for, 1,520,752
—, mineral matter coated with, 1,343,680
—, molded article made with, 1,334,061
—, molding of, apparatus for, 1,327,354
—, —, process for, 1,327,354
—, —, soapstone for, 1,327,354
—, molding powder made with, 1,217,961
—, mortar, water-proofing of using, 1,134,573
—, oil wells obstructed by, 1,410,827
—, ore, briquets of, made with, 1,123,719
—, packing made with, 1,248,909
—, paint made with, 1,127,831; 1,145,186; 1,145,782; 1,226,889; 1,334,061
—, paint, acid-proof, made with, 1,398,084
—, —, anti-fouling, made with, 1,145,186
—, —, sizing of using, 1,194,866
—, —, waterproof, made with, 1,506,371; 1,517,075
—, paper board made with, 1,468,959
—, pavement of, constructing apparatus for, 1,370,815
—, paving made with, 1,198,955; 1,409,104
—, paving blocks from, 1,405,302
—, paving block, impregnation of with, apparatus for, 1,176,284
—, —, —, process for, 1,176,284
—, paving material contg., 1,343,680; 1,364,037
—, peat, briquetting of using, 1,205,007

Bitumen, pipe made with, 1,320,709; 1,505,206
—, pipe joint made using, 1,240,287
—, plaster, waterproof cement product of made with, 1,283,546
—, plastic made with, 1,240,252; 1,305,125; 1,379,590; 1,505,206
—, plastic composition contg., 1,334,061; 1,409,088
—, plastic composition made with, 1,270,732
—, plastic material made with, 1,320,709
—, plastic surface covering contg., soil and, 1,348,278
—, plate, photographic, colored, made with, 1,173,429
—, —, printing, made with, 1,252,800
—, platinum made with, 1,243,681
—, pulleys, coating for contg., 1,305,222
—, resins prepared from, 1,355,103
—, road binder contg., 1,311,215; 1,311,216; 1,311,219; 1,450,685
—, road composition contg., 1,466,928
—, road material contg., 1,319,918
—, road paving made with, 1,183,506; 1,187,314; 1,191,303; 1,215,273; 1,218,218; 1,220,680; 1,220,681; 1,220,682; 1,227,903; 1,235,989; 1,237,920; 1,237,921; 1,239,160; 1,240,252; 1,240,269; 1,247,105; 1,252,722; 1,258,103; 1,265,655; 1,270,732; 1,320,672; 1,320,709; 1,364,621; 1,472,393; 1,482,960; 1,505,880; 1,519,560
—, road paving, expansion joint for, made with, 1,248,909; 1,329,631; Re-15,840
—, —, spacing, plank for, made with, 1,207,524
—, rock asphalt treated with, process for, 1,452,898
—, roofing made with, 1,126,932; 1,144,313; 1,182,415; 1,211,837; 1,248,909; 1,258,103; 1,263,847; 1,302,810; 1,330,443; 1,385,511; 1,489,254
—, roofing, repairing of, composition for made with, 1,149,519
—, —, tile made using, 1,221,370
—, —, water-proofing, composition for made made with, 1,149,519
—, roofing material contg., 1,464,717
—, rope, coating for contg., 1,305,222
—, rubber, composition of and, 1,334,060
—, —, hard, substitute for, made with, 1,128,851
—, rubber article made with, 1,334,060
—, rubber article, seamed, made with, 1,500,097
—, rubber composition contg., 1,282,505
—, rubber product contg., 1,334,060
—, rust-proofing made with, 1,145,186
—, sand, recovery from of, apparatus for, 1,520,752
—, —, —, benzene for, 1,520,752
—, —, —, process for, 1,520,752
—, —, —, sodium chloride for, 1,520,752
—, —, —, sodium sulfate for, 1,520,752
—, —, —, steam for, 1,520,752
—, —, —, toluene for, 1,520,752
—, —, —, water for, 1,520,752
—, sand briquettes made with, 1,479,822
—, sealing composition made with, 1,334,061
—, shale contg., ammonia made with, 1,494,735
—, —, ammonium carbonate made with, 1,494,735
Bitumen, shale contg., ammonium salts made with, 1,494,735
—, —, ammonium sulfate made with, 1,494,735
—, —, carbon dioxide made with, 1,494,735
—, —, hydrogen sulfide made with, 1,494,735
—, —, sulfur dioxide made with, 1,494,735
—, sheaves, coating for contg., 1,305,222
—, shingle made with, 1,208,972; 1,263,847
—, shoe bottom filler contg., 1,258,272
—, shoe filler made with, 1,334,061
—, sidewalk made with, 1,519,560
—, silver, production of using, 1,243,681
—, solid, canvas waterproofed by, 1,364,475
—, —, *see also Pitch resin*
—, solvent for, benzene as, 1,334,061
—, —, carbon tetrachloride for, 1,465,107
—, —, naphtha, solvent, as, 1,334,061
—, —, trichlorethylene as, 1,465,107
—, sprockets, coating for contg., 1,305,222
—, steel, rust-proofing of, using, 1,147,971
—, —, structural, protecting of, process for, 1,167,949
—, stone, artificial, contg., 1,319,918
—, stone briquettes made with, 1,479,822
—, "sulfochlorinated," paving with, 1,409,104
—, sulfur made with, 1,182,915
—, table top made with, 1,334,061
—, tile made with, 1,320,709
—, timber substitute made with, 1,265,655
—, transformer grease contg., 1,360,153
—, treating, petroleum naphtha for, 1,355,099
—, varnish made with, 1,334,061
—, varnish, acidproof, made with, 1,398,084
—, vulcanizing, accelerator for, amines as, 1,464,481
—, —, —, ammonia as, 1,464,481
—, —, —, formaldehyde-aniline as, 1,464,481
—, —, —, hexamethylenetetramine as, 1,464,481
—, —, —, nitrobenzene as, 1,464,481
—, —, —, nitrophenol as, 1,464,481
—, —, sulfur for, 1,464,481
—, wall board made with, 1,520,284
—, waterproofing made with, 1,167,327; 1,248,909; 1,302,810; 1,517,075
—, waterproof composition contg., 1,149,519; 1,401,791
—, waterproof covering made with, 1,489,254
—, waterproof fabric coated with, 1,347,095
—, waterproof material made with, 1,330,443
—, wood, treatment of, using, 1,203,577; 1,217,559
—, —, waterproofing of using, 1,167,327; 1,203,577
—, wood briquettes made with, 1,479,822
—, wood impregnated with sulfur and, 1,265,655
—, zinc sulfide made with, 1,238,242
—, *see also Asphalt; Asphalite; Coal tar; Mexican residuum; Paraffin; Petroleum pitch; Pyrobitumen; Tar*
Bitumen coke, see Coke, bitumen
Bituments, limestone, uniting with, sebacic acid for, 1,391,710
Bituminite, article, molded, made with, 1,312,093; 1,372,114
—, dye oil from, 1,409,083
—, insulation, electric, made with, 1,372,114
—, molded article made with, 1,372,114

"Bituminol," disinfectant made with, 1,457,708
—, flotation process using, 1,457,708
Bituminous cement, paper, waterproof, made with, 1,479,043
—, sheet, composite, made with, 1,479,043
—, *see also Cement, bituminous*
Bituminous coal, see Coal, bituminous
Bituminous composition, 1,464,480; 1,464,481; 1,464,482
—, colored, mfr. of, asphalt for, 1,417,838
—, —, —, chrome green for, 1,417,838
—, —, —, lead chromate for, 1,417,838
—, —, —, malachite green for, 1,417,838
—, —, —, ocher, red, for, 1,417,838
—, —, —, pigment for, 1,417,838
—, —, —, pitch for, 1,417,838
—, —, —, process for, 1,417,838
—, —, —, rhodamine for, 1,418,838
—, —, —, ultramarine for, 1,417,838
—, —, —, wax tailings for, 1,417,838
—, —, roofing made with, 1,417,838
—, fibrous, mfr. of, apparatus for, 1,201,758
—, —, —, asbestos for, 1,156,122
—, —, —, asphalt for, 1,156,122; 1,177,267; 1,201,758; 1,240,524
—, —, —, bituminous material for, 1,240,524
—, —, —, cloth for, 1,156,122
—, —, —, coal tar for, 1,156,122
—, —, —, coal tar oil for, 1,177,267
—, —, —, coal tar pitch for, 1,177,267
—, —, —, cotton for, 1,156,122
—, —, —, elaterite for, 1,156,122
—, —, —, felt for, 1,156,122; 1,201,758; 1,240,524
—, —, —, fiber, animal, for, 1,156,122
—, —, —, —, mineral, for, 1,156,122
—, —, —, fibrous material for, 1,177,267; 1,201,758
—, —, —, gilsonite for, 1,156,122; 1,240,524
—, —, —, grahamite for, 1,156,122; 1,240,524
—, —, —, gravel for, 1,156,122
—, —, —, hair for, 1,156,122
—, —, —, iron for, 1,201,758
—, —, —, limestone for, 1,240,524
—, —, —, paper for, 1,156,122; 1,177,267
—, —, —, paper, waste, for, 1,201,758
—, —, —, paper pulp for, 1,156,122
—, —, —, paper shavings for, 1,240,524
—, —, —, petroleum for, 1,177,267
—, —, —, pitch for, 1,177,267; 1,201,758; 1,240,524
—, —, —, process for, 1,156,122; 1,177,267; 1,201,758; 1,240,524
—, —, —, roofing scrap for, 1,240,524
—, —, —, sand for, 1,156,122
—, —, —, slate for, 1,240,524
—, —, —, soapstone for, 1,156,122; 1,240,524
—, —, —, sodium hydroxide for, 1,177,267
—, —, —, straw for, 1,156,122
—, —, —, talc for, 1,156,122
—, —, —, wire netting for, 1,201,758
—, —, —, wool for, 1,156,122
—, —, *see also Battery, storage container; Floor covering; Insulation, electric; Road paving; Roofing*
—, formula, asphalt 12, pitch 6, flour 2, cement 1, 1,329,232
—, oxidizing, 1,409,237
—, preparing, 1,417,838
Bituminous composition, surfacing, 1,384,110
—, vegetable oil pitches in, 1,409,237
Bituminous emulsion, mfr. of, alkali hydroxide for, 1,517,075
—, —, asphalt for, 1,417,835; 1,517,075
—, —, benzene for, 1,517,075
—, —, bitumen for, 1,417,835; 1,517,075
—, —, clay for, 1,417,835; 1,517,075
—, —, coal tar for, 1,517,075
—, —, fatty acid for, 1,517,075
—, —, gums for, 1,417,835
—, —, hydrocarbon for, 1,517,075
—, —, linseed oil for, 1,417,835; 1,517,075
—, —, naphtha for, 1,517,075
—, —, oil for, 1,517,075
—, —, oil, drying, for, 1,417,835; 1,517,075
—, —, —, non-drying for, 1,417,835
—, —, oleic acid for, 1,517,075
—, —, paraffin for, 1,517,075
—, —, pitch, animal, for, 1,417,835; 1,517,075
—, —, —, vegetable for, 1,417,835; 1,517,075
—, —, process for, 1,417,835; 1,517,075
—, —, resin for, 1,517,075
—, —, rubber for, 1,517,075
—, —, soap for, 1,517,075
—, —, soap, resin, for, 1,517,075
—, —, tar for, 1,517,075
—, —, tung oil for, 1,517,075
—, —, water for, 1,517,075
—, —, water gas tar for, 1,517,075
—, —, wax for, 1,517,075
—, —, wax tailings for, 1,517,075
Bituminous mastic, burial vault made with, 1,478,769
Bituminous material, acidproof material made with, 1,513,133
—, alkali-proof material made with, 1,513,133
—, atomizing, 1,441,904
—, ball mill, lining, for, made with, 1,521,169
—, battery, dry, made using, 1,366,191
—, —, storage, made with, 1,504,312; 1,513,913
—, —, —, separator for, made with, 1,484,927
— bituminous composition, fibrous, made with, 1,240,524
—, brake lining made with, 1,429,267
—, building material made with, 1,288,158; 1,288,159; 1,488,186
—, buoyant composition made with, 1,285,888
—, cement made with, 1,507,379
—, cement, hydraulic, waterproofing of using, 1,134,573
—, —, waterproofing of using, 1,134,573
—, coking of, apparatus for, 1,518,450
—, —, process for, 1,518,450
—, comminuting, 1,441,904
—, concrete, waterproofing of using, 1,134,573
—, congoleum made with, 1,409,768
—, construction material of, 1,409,767
—, core made with, 1,477,064
—, dental cement made with, 1,507,379
—, Diesel engine fuel made with, 1,340,855
—, disinfectant made with, 1,457,708
—, disintegrating, apparatus for, 1,352,623
—, distillation of, apparatus for, 1,488,248
—, —, process for, 1,488,248

Bituminous material, emulsifying of, alkali sludge sulfonate for, 1,373,661
—, —, oleic acid for, 1,373,661
—, —, process for, 1,373,661
—, —, resin for, 1,373,661
—, —, resin oil for, 1,373,661
—, —, sludge sulfonate for, 1,373,661
—, —, sludge sulfonic acid for, 1,373,661
—, —, soap, sludge sulfonate for, 1,373,661
—, —, water for, 1,373,661
—, emulsion made with, 1,408,224; 1,479,042
—, fabric made with, 1,503,337
—, fabric, impregnated, made with, 1,340,855
—, felt-water-proofed made with, 1,288,158; 1,288,159
—, floor covering made with, 1,273,536; 1,409,768
—, flooring made with, 1,417,840
—, flotation process using, 1,350,364; 1,417,261; 1,457,708
—, friction fabric made with, 1,429,267
—, friction facing made with, 1,275,043
—, glaze producing composition contg., 1,402,412
—, grouting made with, 1,237,921
—, heater, electric, made with, 1,507,379
—, heating apparatus for, 1,234,091
—, hide tanned with, 1,285,144
—, insulating and sealing composition contg., 1,345,057
—, insulation, electric, made with, 1,340,855; 1,503,337
—, —, heat, made with, 1,503,337
—, iron, coating of using, 1,195,090
—, lacquer made with, 1,195,090
—, leather made with, 1,200,146
—, linoleum made with, 1,132,647
—, mfr. of, asphalt for, 1,417,835; 1,450,685; Re-15,944
—, —, asphalt, artificial, for, 1,506,371
—, —, —, Genasco, for, 1,329,232
—, —, —, natural, for, 1,506,371
—, —, bentonite for, 1,450,685; Re-15,944
—, —, benzene for, 1,506,371
—, —, bitumen for, 1,417,835; 1,506,371
—, —, cellulose sulfite liquor for, 1,450,685; Re-15,944
—, —, cement for, 1,329,232
—, —, cement, asphaltic, for, 1,506,371
—, —, clay for, 1,417,835; 1,506,371
—, —, clay, colloidal, for, 1,450,685; Re-15,944
—, —, coal tar pitch for, 1,506,371
—, —, gums for, 1,417,835
—, —, leather waste for, 1,506,371
—, —, linseed oil for, 1,417,835; 1,506,371
—, —, naphtha for, 1,506,371
—, —, oil, drying, for, 1,417,835
—, —, —, non-drying for, 1,417,835
—, —, paper for, 1,506,371
—, —, petroleum residuum for, 1,450,685; Re-15,944; 1,506,371
—, —, pitch for, 1,329,232; 1,506,371
—, —, pitch, animal, for, 1,417,835
—, —, —, vegetable, for, 1,417,835
—, —, process for, 1,329,232; 1,417,835; 1,440,356; 1,450,685; Re-15,944; 1,506,371
Bituminous material, mfr. of, resin for, 1,506,371
—, —, rosin for, 1,506,371
—, —, wax tailings for, 1,506,371
—, —, wheat flour for, 1,329,232
—, —, wood pulp for, 1,506,371
—, metal, coating of using, 1,168,599; 1,195,090
—, —, protecting of using, 1,432,512
—, minerals, recovery from of, apparatus for, 1,520,752
—, —, —, benzene for, 1,520,752
—, —, —, process for, 1,520,752
—, —, —, sodium chloride for, 1,520,752
—, —, —, sodium sulfate for, 1,520,752
—, —, —, steam for, 1,520,752
—, —, —, toluene for, 1,520,752
—, —, —, water for, 1,520,752
—, mortar, water-proofing of using, 1,134,573
—, paint made with, 1,226,889; 1,340,855
—, paint for, mfr. of, process for, 1,410,790
—, paving made with, 1,198,955
—, plastic made with, 1,507,379
—, porcelain made with, 1,507,379
—, record, phonograph, made with, 1,516,469
—, regeneration of, apparatus for, 1,188,081
—, —, process for, 1,188,081
—, —, steam for, 1,188,081
—, resistance, electric, made with, 1,507,379
—, road paving made with, 1,164,041; 1,183,506; 1,183,507; 1,192,178; 1,199,751; 1,206,056; 1,220,680; 1,220,681; 1,220,682; 1,234,360; 1,237,920; 1,237,921; 1,240,269; 1,240,481; 1,340,855; 1,364,620; 1,364,622; 1,482,960; 1,486,015; 1,495,260; 1,519,560
—, roofing made with, 1,123,727; 1,181,827; 1,204,632; 1,208,595; 1,226,738; 1,238,805; 1,240,524; 1,241,146; 1,286,077; 1,295,361; 1,330,443; 1,340,855; 1,357,920; 1,374,187; 1,409,767; 1,417,840; 1,417,841; 1,488,186; 1,494,380; 1,499,308; 1,517,860
—, rug made with, 1,249,734; 1,273,536
—, sand, recovery from of, apparatus for, 1,520,752
—, —, —, benzene for, 1,520,752
—, —, —, process for, 1,520,752
—, —, —, sodium chloride for, 1,520,752
—, —, —, sodium sulfate for, 1,520,752
—, —, —, steam for, 1,520,752
—, —, —, toluene for, 1,520,752
—, —, —, water for, 1,520,752
—, shingle, artificial, made with, 1,494,380; 1,517,860
—, shipping, preparing for, 1,402,177
—, shoe, bottom filler for, made with, 1,263,499
—, sidewalk made with, 1,519,560
—, steel, coating of using, 1,195,090
—, —, structural, protecting of, process for, 1,167,949
—, tanning compound made with, 1,399,510
—, treatment of, hydrochloric acid for, 1,513,133
—, —, process for, 1,513,133
—, veneer board made with, 1,476,570
—, wall board made with, 1,520,284
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—, wood, seasoning of using, 1,517,473

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—, *see also Asphalt; Bitumen; Coal tar; Coal tar pitch; Cotton seed pitch; Elaterite; Gilsonite; Grahamite; Petroleum wax; Pitch; Resin; Stearin pitch; Still wax; Wax tailing*
Bituminous matter, electrode joint made with, 1,495,749
—, extracting shale, heavy oil for, 1,327,572
—, roofing made of felt coated with, 1,357,920
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Bituminous oil, distillation of, air for, 1,247,671
—, —, apparatus for, 1,247,671
—, —, coal for, 1,247,671
—, —, coke for, 1,247,671
—, —, process for, 1,247,671
—, —, producer gas for, 1,247,671
—, —, steam for, 1,247,671
—, —, water for, 1,247,671
—, producer gas made using, 1,247,671
Bituminous product, mfr. of, 1,409,237
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Bituminous shale, aluminum made with, 1,506,104
—, aluminum chloride made with, 1,506,104
—, aluminum oxide made with, 1,506,104
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—, carbon tetrachloride made with, 1,506,104
—, crude oil made from, 1,514,162
—, *a*-dichlor-ethane made with, 1,506,104
—, hydrocarbon made with, 1,506,104
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Bituminous solution, iron, coating of, using, 1,328,282
—, —, painting of, using, 1,328,282
—, paint, iron, made with, 1,328,282
—, —, steel, made with, 1,328,282
—, steel, coating of, using, 1,328,282
—, —, painting of, using, 1,328,282
Bituminous substances, treating, borates for, 1,394,874
Biuret, vulcanization accelerator, 1,503,429
—, vulcanization process using, 1,503,429
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—, paint made with, 1,513,794
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—, —, aluminum apparatus for, 1,282,906
—, —, amines for, 1,282,906
—, —, amyl alcohol for, 1,282,906
—, —, apparatus for, 1,282,906
—, —, brass apparatus for, 1,282,906
—, —, bromine for, 1,282,906
—, —, bronze apparatus for, 1,282,906
—, —, carbon monoxide for, 1,282,906
—, —, chlorine for, 1,282,906
—, —, copper apparatus for, 1,282,906
—, —, cracking process for, 1,282,906
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Bivinyl, mfr. of, halogen for, 1,282,906
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—, —, mercury(ic) salt for, 1,282,906
—, —, nickel as catalyst for, 1,282,906
—, —, nitrogen for, 1,282,906
—, —, oil, crude, for, 1,282,906
—, —, —, lubricating for, 1,282,906
—, —, palladium as catalyst for, 1,282,906
—, —, paraffin for, 1,282,906
—, —, paraffin oil for, 1,282,906
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—, —, petroleum coke as catalyst carrier for, 1,282,906
—, —, petroleum wax for, 1,282,906
—, —, process for, 1,282,906
—, —, producer gas for, 1,282,906
—, —, quartz apparatus for, 1,282,906
—, —, spindle oil for, 1,282,906
—, —, steel apparatus for, 1,282,906
—, —, still residue for, 1,282,906
—, —, sulfur dioxide for, 1,282,906
—, —, sulfuric acid for, 1,282,906
—, —, terra cotta apparatus for, 1,282,906
—, —, 1.2.3.4-tetrachlorbutane for, 1,144,237
—, —, turpentine oil for, 1,282,906
—, —, water gas for, 1,282,906
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—, *aniline, see Aniline black*
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—, paint contg. mfr. of, 1,450,688
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—, case-hardening composition contg., 1,270,874
—, charcoal made with, 1,166,509
—, gold precipitated by, 1,372,971
—, mfr. of, process for, 1,322,043
—, recovery of, process for, 1,322,043
—, silver precipitated by, 1,372,971
—, sodium carbonate made with, 1,166,509
—, sodium sulfide made with, 1,322,043; 1,503,013
—, treatment of, apparatus for, 1,511,238
—, waste from wood pulp mfr. termed, 1,375,759
—, *see also Cellulose soda ash; Cellulose sulfate ash*
Black ash cinder, sodium hydroxide from, process for, 1,308,184
—, *see also Soda ash cinder; Sodium carbonate*
Black-ash liquor, filtering of, apparatus for, 1,320,324
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Black asphaltum, see Asphaltum, black
Black Bear's foot, see Helleborus
Blackberry juice, beverage made with, 1,194,230
—, food product made with, 1,194,230
Blackboard, cleaner for, mfr. of, asphalt for, 1,223,846
—, —, —, beeswax for, 1,223,846
—, —, —, carborundum for, 1,233,846
—, —, —, crystolon for, 1,223,846
—, —, —, pitch for, 1,223,846
—, —, —, process for, 1,223,846
—, —, —, rosin for, 1,223,846
—, —, —, shellac, orange, for, 1,223,846
—, —, —, slate for, 1,223,846
—, —, —, sulfur for, 1,223,846
—, metallic, coating, emery for, 1,434,989
—, —, mfr. of, 1,434,989
—, polish, mfr. of, asphalt for, 1,223,846
—, —, —, beeswax for, 1,223,846
—, —, —, carborundum for, 1,223,846
—, —, —, crystolon for, 1,223,846
—, —, —, pitch for, 1,223,846
—, —, —, process for, 1,223,846
—, —, —, rosin for, 1,223,846
—, —, —, shellac, orange, for, 1,223,846
—, —, —, slate for, 1,223,846
—, —, —, sulfur for, 1,223,846
—, *see also Writing board; Slate, writing*
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Black-boy resin, see Acaroid
Black boy tree, see Grass tree
Black carbon, see Carbon black
Black chalk, see Mineral black
Black cobalt ocher, see Wad
Black copper, see Tenorite
Black copper oxide, see Copper(ic) oxide
—, *see also Tenorite*
Black gum wood, paper made with, 1,166,848
—, wood pulp made with, 1,166,848
" Black head," cure of, charcoal for, 1,463,539
—, —, mercury(ous) chloride for, 1,463,539
—, —, rhubarb for, 1,463,539
—, turkey disease, cause of, 1,463,539
—, —, cure of, 1,463,539
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—, —, process for, 1,226,432
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Black iron ore, see Psilomelane
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Black liquor, acetone mfr. from, 1,374,889
—, charcoal made with, 1,166,509
—, distilling with lime, 1,374,889
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—, lime for distilling, 1,374,889
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—, refining raw, wood ashes for, 1,344,691
—, sodium carbonate made with, 1,166,509
—, tar products mfr. from, 1,374,889
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—, utilization of, 1,374,889
—, waste from wood pulp mfr. termed, 1,375,759
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Black lead, paint contg., mfr. of, 1,450,688
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Black leg vaccine, mfr. of, calcium carbonate for, 1,511,557
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Black manganese ore, compact, see Psilomelane
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Black oil, lubricant made with, 1,238,101
—, paint made with, 1,479,768
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Black powder, grinding of, gasolene for, 1,295,975
—, —, mill for, 1,295,975
—, mfr. of, carbon for, 1,225,374
—, —, process for, 1,225,374
—, —, " product D " for, 1,225,374
—, —, sulfur for, 1,225,374
—, pellets of, mfr. of, 1,295,975
—, potassium nitrate in, 1,295,975
—, shrapnel shell made using, 1,207,884
—, water-proofing of, cellulose nitrate for, 1,207,884
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Black sage, charcoal made with, 1,212,130
—, copper ore, flotation of, using, 1,212,130
—, flotation process using, 1,212,130
—, fuel, gaseous, made with, 1,212,130
—, gold ore, flotation of, using, 1,212,130
—, lead ore, flotation of, using, 1,212,130
—, mercury ore, flotation of, using, 1,212,130
—, sage tar oil made with, 1,212,130
—, silver ore, flotation of, using, 1,212,130
—, zinc ore, flotation of, using, 1,212,130
Black sand, gold made with, 1,494,071
—, osmiridium made with, 1,494,071
—, platinum made with, 1,494,071
—, platinum alloy made with, 1,494,071
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Black strap, alcohol, treatment of slops resulting from, 1,357,138
—, evaporation-preventing foam contg., 1,443,538
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Black substance, wheat flour, removal of, process for, 1,154,547
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—, sausage casing made with, 1,235,947
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—, tempered, mfr. of, 1,333,767
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—, lake made with, 1,369,252
—, mfr. of, 1,388,285
—, paint made with, 1,369,252
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—, iron purified with, 1,260,660
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—, —, excelsior for, 1,514,849
—, —, limestone for, 1,514,849
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—, —, wood for, 1,514,849
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—, —, oxygen for, 1,518,854
—, —, process for, 1,518,854
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—, powdered coal as fuel for, 1,311,807
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Blast furnace dust, aluminum chloride made with, 1,320,193
—, aluminum oxide in, 1,161,790
—, briquet made with, 1,246,808
—, calcium oxide in, 1,161,790
—, carbon in, 1,161,790
—, cement, hydraulic, made with, 1,130,143
—, coke in, 1,161,790
—, core made with, 1,477,064
—, explosive of liquid air and, 1,375,243
—, hematite, briquetting of, using, 1,238,022
—, iron chloride made with, 1,320,193
—, iron ore, briquetting of, using, 1,238,022
—, iron oxide in, 1,161,790
—, magnesium oxide in, 1,161,790
—, manganese in, 1,161,790
—, ore, briquetting of, using, 1,238,022
—, potassium chloride made with, 1,320,193
—, potassium salt from, process for, 1,320,193
—, silicon dioxide in, 1,161,790
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—, —, paint rock for, 1,129,645
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—, iron, sponge, made with, 1,231,831
—, iron oxide made with, 1,231,831
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—, —, —, bauxite for, 1,223,308
—, —, —, bran for, 1,223,248; 1,223,249
—, —, —, brick, fire, for, 1,223,308
—, —, —, cement, Portland, for, 1,222,922; 1,223,308
—, —, —, clay, fire, 1,222,922; 1,223,248; 1,223,249; 1,223,308
—, —, —, —, —, stourbridge, for, 1,223,248; 1,223,249
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—, —, —, sodium silicate for, 1,222,922; 1,223,308
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—, carbon, ferro-chromium, removal from of, using, 1,481,747
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—, carbon dioxide, determination of in, 1,485,757
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—, ferro-chromium, refining of using, 1,481,747
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—, ferro-manganese made with, 1,185,396
—, ferro-metal made with, 1,185,396
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—, formic acid made with, 1,466,626
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—, oxalic acid made with, 1,466,624; 1,466,628
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—, potassium salts made with, 1,466,626
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—, sodium carbonate made with, 1,466,626
—, sodium cyanide made with, 1,466,624; 1,466,626; 1,466,628
—, sodium formate made with, 1,466,626
—, sodium oxalate made with, 1,466,624; 1,466,626; 1,466,628
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Blast furnace pitch, cement, waterproof, contg., 1,305,645
Blast furnace slag, ammonia still waste purified with, 1,323,239; 1,323,251; 1,323,256
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—, block made from, process for, 1,259,304
—, brick made with, 1,463,399
—, brick made from, process for, 1,259,304
—, brick, Rhenish tuff made from, 1,163,605
Blast furnace slag, building blocks from, 1,418,810
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—, cement, Portland, made with, 1,220,735
—, coke, petroleum, briquetting of, using, 1,236,447
—, concrete made with, 1,462,991
—, dolomite refractory made with, 1,463,399
—, fertilizer made with, 1,154,859; 1,163,130; 1,171,046; 1,283,678
—, gas purified with, 1,171,046
—, gold recovered from sea water by, 1,358,096
—, gas removed from, potato for, 1,259,304
—, —, sand for, 1,259,304
—, —, niter for, 1,259,304
—, granulation of, apparatus for, 1,502,793
—, —, process for, 1,502,793
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—, illuminating gas, hydrogen sulfide, removal of from using, 1,154,858; 1,154,859
—, lime, hydraulic, made with, 1,220,735
—, liquid purified with, 1,323,239; 1,323,251; 1,323,256
—, mineral matter made with, 1,169,506
—, niter, gas removed with from, 1,259,304
—, paint made with, 1,171,046
—, pigment made with, 1,154,859
—, plaster made with, 1,142,989; 1,393,814
—, plastic made with, 1,142,989
—, porous mass made from, apparatus for, 1,163,605
—, —, process for, 1,163,605
—, potassium compounds recovered from fumes of, 1,414,353
—, potato, gas removed with from, 1,259,304
—, refractory made with, 1,463,399
—, road binder contg., 1,445,240
—, road paving made with, 1,361,140; 1,364,621
—, roading paving block made from, process for, 1,259,304
—, rubber product made with, 1,246,192
—, sand, gas removed with from, 1,259,304
—, tile contg., 1,255,236
—, tire made with, 1,246,192
—, water purified with, 1,171,046
—, water softening compound made with, 1,482,601
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Blast furnace slake, steamed, hematite, briquetting of, using, 1,238,022
—, —, iron ore, briquetting of, using, 1,238,022
—, —, ore, briquetting of, using, 1,238,022
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Blast furnace tap hole, opening of, apparatus for, 1,186,358
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—, —, oxygen for, 1,186,358
—, —, process for, 1,186,358
Blast furnace tar, Diesel engine fuel made with, 1,340,855
—, fabric, impregnated, made with, 1,340,855
—, insulation, electric, made with, 1,340,855
—, paint made with, 1,340,855
—, road paving made with, 1,340,855
—, roofing made with, 1,340,855
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—, potassium sulfate made with, 1,504,730
—, preservative for, boric acid as, 1,516,566; 1,516,567
—, removing and etherizing apparatus, 1,349,766
—, rubber, hard, substitute made using, 1,512,979
—, serum made from, 1,495,364
—, serum from, collecting apparatus for, 1,411,068
—, serum proteins from, 1,403,892
—, *solution of, colloidal, see Blood, dispersing*
—, tanning, aldehydes for, 1,395,729
—, *testing, apparatus for, see Hemoglobinometer*
—, treating, hydrogen dioxide for, 1,415,277
Blood albumen, brake lining made with, 1,416,979
—, celluloid substitute contg., 1,319,666
—, ebonite substitute contg., 1,319,666
—, galalith substitute contg., 1,319,666
—, glue made with, 1,329,599; 1,459,541
—, glue, waterproof, made with, 1,506,013
—, horn substitute contg., 1,319,666
—, leather seasoning with, 1,345,430
—, molded article made with, 1,459,541
—, phenol aldehyde condensate made with, 1,187,869
—, plastic made with, 1,187,869; 1,319,666
—, rubber, reclaiming of, using, 1,189,282
—, skins seasoned with, 1,345,429
—, *see also Albumen, blood*
Blood antitoxin, mfr. of, acetic acid for, 1,270,270
—, —, ammonium sulfate for, 1,270,270
—, —, cresol for, 1,264,285; 1,270,270
—, —, phenol for, 1,264,285; 1,270,270
—, —, process for, 1,264,285; 1,270,270
—, —, sodium carbonate for, 1,270,270
—, —, sodium chloride for, 1,264,285; 1,270,270
Blood cells, preserving, 1,378,896
—, reinjecting into the blood stream of horses, 1,378,896
Blood char, revivifying of, apparatus for, 1,513,622
—, —, process for, 1,513,622
Blood charcoal, gold extracted from sea-water by, 1,375,441
—, *see also Charcoal blood*
Blood clotting substance, mfr. of, acetone for, 1,240,694
—, —, alcohol for, 1,240,694
—, —, blood, magnesium, for, 1,240,694
—, —, —, oxalate, for, 1,240,694
—, —, blood plasma for, 1,240,694
—, —, blood serum for, 1,240,694
—, —, carbon tetrachloride for, 1,240,694
—, —, chloroform for, 1,240,694
—, —, ether for, 1,240,694
—, —, hexachlor-ethane for, 1,240,694
—, —, process for, 1,240,694
—, —, sodium chloride for, 1,240,694
—, —, sugar for, 1,240,694
—, —, tetrachlor-ethene for, 1,240,694
—, —, tetrachlor-ethylene for, 1,240,694
Blood glue, see Glue, blood
Blood plasma, blood clotting substance made with, 1,240,694
Blood poison, salve for, 1,470,422
Blood pressure, reducing, bacterium coli and amboceptors for, 1,399,535
Blood product, mfr. of, acetic acid for, 1,380,427
—, —, ammoniac for, 1,380,427
—, —, amyl alcohol for, 1,380,427
—, —, blood for, 1,380,427
—, —, chloroform for, 1,380,427
—, —, ether for, 1,380,427
—, —, ethyl acetate for, 1,380,427
—, —, process for, 1,380,427
—, —, spirits for, 1,380,427
Blood protein, food product made with, 1,226,983
Blood red, see Indian red
—, *see also Iron(ic) oxide*
Blood root, ointment contg., 1,411,577
Blood serum, baking powder contg., 1,443,180
—, blood clotting substance made with, 1,240,694
—, bread made with, 1,277,336
—, caoutchouc, artificial, made with, 1,178,721
—, —, synthetic, made with, 1,149,577
—, chocolate made with, 1,277,336
—, egg yolk substitute made with, 1,277,336
—, filter for, 1,336,591
—, food product made with, 1,277,336
—, jelly made with, 1,277,336
—, latex, artificial, made with, 1,149,577
—, mfr. of, bean, kidney, for, 1,264,285
—, —, —, scarlet runner, for, 1,264,285
—, —, —, white navy, for, 1,264,285
—, —, citrate for, 1,264,285
—, —, oxalate for, 1,264,285
—, —, peanut for, 1,264,285
—, —, process for, 1,264,285
—, —, sodium citrate for, 1,264,285
—, molded article made with, 1,441,570
—, secretin made with, 1,181,424
—, sweibach made with, 1,277,336
Bloodwood, see Eucalyptus corymbosa
Blooms, mfr. of, from, scrap, for, 1,155,409
Blossom S. 1283, silk dyed with, 1,446,860
Blotting paper, see Paper, blotting-
Blow case, liquid-elevating, 1,373,220

Blower, mfr. of, asbestos for, 1,430,561
—, —, Bakelite for, 1,509,953
—, —, brass for, 1,430,561; 1,509,953
—, —, cloth for, 1,430,561
—, —, cotton batting for, 1,430,561; 1,509,953
—, —, fabric for, 1,509,953
—, —, fibrous material for, 1,430,561
—, —, paper for, 1,430,561; 1,509,953
—, —, phenol aldehyde condensate for, 1,430,561; 1,509,953
—, —, process for, 1,430,561; 1,509,953
—, —, shellac substitute for, 1,509,953
—, —, steel for, 1,430,561; 1,509,953
—, —, wood flour for, 1,430,561
—, *see also Fan*
Blown metal, manganese steel from, 1,291,655
Blown oil, leather, artificial, made with, 1,310,703
Blubber, cod, oil extraction from spent, 1,456,019
—, hydrogenated, purification of, apparatus for, 1,177,911
—, —, —, process for, 1,177,911
—, —, —, sodium carbonate for, 1,177,911
—, —, —, sodium hydroxide for, 1,177,911
—, —, —, sulfuric acid for, 1,177,911
Blubber oil, flotation with, 1,467,354
Blue, Prussian, see also Bluing
Blue acid, see Sulpho-nitronic acid
Blue aniline A, ink paste made with, 1,479,533
—, *see also Triphenyl-trisulfo-pararosaniline; Triphenyl-trisulfo-rosaniline*
Blue ashes, see Azurite
Blueberries, maggots, removal of from, 1,515,908
—, washing of, process for, 1,515,908
Bluebilly, cement, ferric, made with, 1,255,995
—, *see also Iron oxide; Pyrites cinder*
Bluebird S. 6065, silk dyed with, 1,446,860
Blue black, direct, see Direct blue black
—, paint contg. mfr. of, 1,450,688
Blue blisters, salve for, 1,470,422
Blue Copperas, see Bluestone
—, *see also Blue Vitriol*
Blue copper carbonate, see Azurite
Blue Cross gas, see Diphenyl-chlorarsine
"Blue" gas, iron oxide reduced by, 1,345,905
—, *see also Water gas*
Blue gum, see Eucalyptus globulus
Blue-john, see Fuorite
—, *see also Calcium fluoride*
Blue malachite, see Azurite
Blue mass, syphilis, treated using, 1,408,170; Re-15,411
—, venereal diseases, treated using, 1,408,170; Re-15,411
—, *see also Massa Hydrargiri; Pulvis pill hydrarge*
Blue negative light printing paper, see Blue print paper
Blue oil, see Gas oil
—, *see also Aniline oil; Coerulignol*
Blue pills, see Blue mass
"Blue plaster," wall board made with, 1,502,603
Blue powder, explosive shell made with, 1,235,245
—, recovery of, furnace for melting of, 1,301,374
Blue powder, smoke-producing composition made with, 1,235,245
—, zinc, electrodeposition of, use of, 1,322,104
—, —, production of using, 1,153,786; 1,236,395; 1,249,061; 1,254,531
—, zinc chloride made with, 1,254,531
—, zinc hypochlorite made with, 1,254,531
—, zinc ore, briquets of made using, 1,168,401
—, zinc oxide and zinc in, 1,254,531
—, zinc sulfate made with, 1,496,004
—, zinc and zinc oxide in, 1,254,531
—, *see also Zinc; Zinc dust; Zinc oxide; Zinc powder; Zinc white*
"Blue powder precipitated," treating, 1,426,703
—, *see also Zinc dust*
Blue prints, drawings for producing, preparing by chemical means, 1,343,978
—, mfr. of, 2.4-diamino-phenol for, 1,499,930
—, —, iron(ic) chloride for, 1,499,930
—, —, oxalic acid for, 1,499,930
—, —, potassium bromide for, 1,499,930
—, —, potassium ferricyanide for, 1,499,930
—, —, sodium chloride for, 1,499,930
Blue print paper, mfr. of, acetic acid for, 1,500,433
—, —, alkali for, 1,500,433
—, —, alkali acetate for, 1,500,433
—, —, alkali carbonate for, 1,500,433
—, —, alkali citrate for, 1,500,433
—, —, alkali iron(ic) oxalate for, 1,500,433
—, —, alkali lactate for, 1,500,433
—, —, alkali oxalate for, 1,500,433
—, —, alkali salt for, 1,500,433
—, —, alkali tartrate for, 1,500,433
—, —, ammonium acetate for, 1,500,433
—, —, ammonium carbonate for, 1,500,433
—, —, ammonium citrate for, 1,500,433
—, —, ammonium iron(ic) acetate for, 1,500,433
—, —, ammonium iron(ic) citrate for, 1,518,997
—, —, ammonium iron(ic) oxalate for, 1,518,997
—, —, ammonium lactate for, 1,500,433
—, —, ammonium oxalate for, 1,500,433
—, —, ammonium salt for, 1,500,433
—, —, ammonium tartrate for, 1,500,433
—, —, citric acid for, 1,500,433
—, —, iron(ic) salt for, 1,500,433
—, —, lactic acid for, 1,500,433
—, —, oxalic acid for, 1,500,433
—, —, potassium acetate for, 1,500,433
—, —, potassium carbonate for, 1,500,433
—, —, potassium citrate for, 1,500,433
—, —, potassium ferricyanide for, 1,500,433; 1,518,997
—, —, potassium lactate for, 1,500,433
—, —, potassium oxalate for, 1,500,433
—, —, potassium salt for, 1,500,433
—, —, potassium tartrate for, 1,500,433
—, —, process for, 1,500,433; 1,518,997
—, —, sodium acetate for, 1,500,433
—, —, sodium carbonate for, 1,500,433
—, —, sodium citrate for, 1,500,433
—, —, sodium lactate for, 1,500,433
—, —, sodium oxalate for, 1,500,433
—, —, sodium salt for, 1,500,433
—, —, sodium tartrate for, 1,500,433
—, —, tartaric acid for, 1,500,433
—, —, vanadium, colloidal, for, 1,518,997

Blue print paper, mfr. of, vanadium oxide for, 1,518,997
—, —, vanadium pentoxide for, 1,518,997
—, *see also Light sensitive composition; Photographic paper*
Blue R, alkali-proofing, 1,349,265
Blue salt, see Indigosol O
Blue salts, see Nickel sulphate
Bluestone, see Copper sulfate, $CuSO_4 5H_2O$
—, *see also, Sandstone, blue; Stone*
—, *light, see Copper sulfate, $CuSO_4$*
Blue verditer, see Azurite
Blue vitriol, see Copper(ic) sulfate
Bluing, dishes made from composition contg., 1,429,360
—, laundering using, 1,515,647
—, laundry, abrasive compound contg., 1,443,660
—, mfr. of, borax for, 1,219,186
—, —, process for, 1,219,186
—, —, Prussian blue, soluble, for, 1,219,186
—, paint remover contg., 1,230,668
—, soap made with, 1,488,035
—, varnish remover contg., 1,230,668
—, *see also Blue, Prussian*
Bluing water, adhesive, fireproof, made with, 1,248,092
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,248,092
—, paint, fireproof, made with, 1,248,092
—, paper, fireproof sizing for, made with, 1,248,092
—, starch, fireproof, made with, 1,248,092
—, varnish, fireproof, made with, 1,248,092
B. massal, see Bacteria, massal,
Board, artificial, mfr. of, albumen for, 1,183,446
—, —, —, asbestos for, 1,334,061
—, —, —, bitumen for, 1,334,061
—, —, —, calcium oxide for, 1,183,446
—, —, —, cellulose for, 1,183,446
—, —, —, chalk for, 1,490,541
—, —, —, coal tar bitumen for, 1,334,061
—, —, —, coal tar pitch bitumen for, 1,334,061
—, —, —, copal for, 1,490,541
—, —, —, cork for, 1,183,446; 1,334,061
—, —, —, cotton for, 1,334,061
—, —, —, cotton flock for, 1,490,541
—, —, —, cowrie for, 1,490,541
—, —, —, excelsior for, 1,183,446
—, —, —, formaldehyde for, 1,183,446
—, —, —, gelatin for, 1,183,446
—, —, —, gum for, 1,490,541
—, —, —, licorice root for, 1,143,621
—, —, —, magnesium chloride for, 1,183,446
—, —, —, magnesium oxide for, 1,183,446
—, —, —, magnesium oxychloride for, 1,183,446
—, —, —, metal chloride for, 1,183,446
—, —, —, metal oxide for, 1,183,446
—, —, —, oils for, 1,183,446
—, —, —, paper for, 1,143,621
—, —, —, paper pulp for, 1,334,061; 1,490,541
—, —, —, pigment for, 1,334,061
—, —, —, plaster of Paris for, 1,490,541
—, —, —, potassium chromate for, 1,183,446
—, —, —, process for, 1,143,621; 1,183,446; 1,334,061; 1,490,541
—, —, —, rags for, 1,143,621; 1,490,541
—, —, —, resin for, 1,183,446; 1,490,541
Board, artificial, mfr. of, sand for, 1,183,446; 1,334,061
—, —, —, sawdust for, 1,183,446
—, —, —, shellac for, 1,490,541
—, —, —, silica for, 1,490,541
—, —, —, sizing for, 1,334,061
—, —, —, sodium hydroxide for, 1,143,621
—, —, —, sodium silicate for, 1,143,621
—, —, —, stone for, 1,183,446
—, —, —, straw for, 1,143,621
—, —, —, strontium oxide for, 1,183,446
—, —, —, thermoplastic for, 1,490,541
—, —, —, wood for, 1,143,621; 1,334,061
—, —, —, wood pulp for, 1,183,446; 1,490,541
—, —, —, wood shavings for, 1,183,446
—, —, —, wool for, 1,334,061
—, —, —, zinc oxide for, 1,183,446
—, —, *see also Board, composite*
—, board made with, 1,245,984
—, cement, fiber, mfr. of, process for, 1,297,480
—, composite, mfr. of, apparatus for, 1,124,445
—, —, —, asphalt for, 1,345,081
—, —, —, Bakelite for, 1,303,753
—, —, —, burlap for, 1,491,112
—, —, —, cement for, 1,345,081; 1,491,112
—, —, — cloth for, 1,491,112; 1,303,753
—, —, —, cocoanut fiber for, 1,491,112
—, —, —, cork dust for, 1,491,112
—, —, —, excelsior for, 1,491,112
—, —, —, glue for, 1,345,081
—, —, —, hair for, 1,491,112
—, —, —, hay for, 1,491,112
—, —, —, magnesite, calcined, for, 1,491,112
—, —, —, magnesium carbonate, calcined, for, 1,491,112
—, —, —, magnesium chloride for, 1,491,112
—, —, —, magnesium oxide for, 1,491,112
—, —, —, moss for, 1,491,112
—, —, —, paper for, 1,125,445; 1,491,112
—, —, — paper and Bakelite for, 1,303,753
—, —, —, paper board for, 1,345,081
—, —, —, phenol aldehyde condensate for, 1,303,753
—, —, —, plaster of Paris for, 1,491,112
—, —, —, process for, 1,125,445; 1,303,753; 1,345,081; 1,491,112
—, —, —, rags for, 1,491,112
—, —, —, resin for, 1,345,081
—, —, —, rubber for, 1,345,081
—, —, —, sawdust for, 1,125,445; 1,491,112
—, —, —, shellac for, 1,345,081
—, —, —, sodium silicate for, 1,125,445
—, —, —, straw for, 1,491,112
—, —, —, straw board for, 1,345,081
—, —, —, tar for, 1,345,081
—, —, —, wood for, 1,491,112
—, —, —, wood pulp for, 1,491,112
—, —, *see also Wall board*
—, compound, mfr. of, airplane dope for, 1,344,962
—, —, —, cellulose acetate for, 1,344,962
—, —, —, cellulose ester for, 1,344,962
—, —, —, gypsum for, 1,344,962
—, —, —, lacquer for, 1,344,962
—, —, —, metal for, 1,344,962
—, —, —, paper for, 1,344,962

Board, compound, mfr. of, paper pulp for, 1,344,962
—, —, —, plaster for, 1,344,962
—, —, —, plaster of Paris for, 1,344,962
—, —, —, poultry wire for, 1,344,962
—, —, —, process for, 1,344,962
—, —, —, sodium silicate for, 1,344,962
—, —, —, wood fiber for, 1,344,962
—, fireproof, mfr. of, alum for, 1,226,779
—, —, —, asbestos for, 1,192,931; 1,226,779
—, —, —, cement, fireproof, for, 1,192,931
—, —, —, —, hydraulic, for, 1,226,779
—, —, —, mineral wool for, 1,226,779
—, —, —, plaster of Paris for, 1,192,931
—, —, —, process for, 1,192,931; 1,226,779
—, —, —, shellac for, 1,192,931
—, fire-resistant, mfr. of, asbestos for, 1,159,866
—, —, —, cement, hydraulic, for, 1,159,866
—, —, —, mineral wool for, 1,159,868
—, —, —, process for, 1,159,866
—, flexible, asbestos in, 1,252,468
—, —, eel grass in, 1,252,468
—, —, fiber, animal, in, 1,252,468
—, —, —, mineral, in, 1,252,468
—, —, —, vegetable, in, 1,252,468
—, —, hair, animal, in, 1,252,468
—, —, mfr. of asbestos for, 1,252,468
—, —, —, eel grass for, 1,252,468
—, —, —, fiber, animal, for, 1,252,468
—, —, —, mineral, for, 1,252,468
—, —, —, —, vegetable, for, 1,252,468
—, —, —, hair, animal, for, 1,252,468
—, —, —, mineral wool for, 1,252,468
—, —, —, process for, 1,252,468
—, —, —, sodium hydroxide for, 1,252,468
—, —, mineral wool in, 1,252,468
—, —, sodium hydroxide in, 1,252,468
—, glazed surface for, mfr. of, process for, 1,245,981; 1,245,982
—, insulating, mfr. of, 1,449,221
—, lacquering for, mfr. of, process for, 1,245,981; 1,245,982
—, laminated, mfr. of, asbestos for, 1,130,410
—, —, —, paper for, 1,130,410
—, —, —, process for, 1,130,410
—, —, —, rosin for, 1,130,410
—, —, —, sodium silicate for, 1,130,410
—, —, —, steel for, 1,130,410
—, —, —, strawboard for, 1,130,140
—, —, —, wood for, 1,130,140
—, mfr. of, acetic acid for, 1,245,984
—, —, alkali carbonate for, 1,245,984
—, —, alkali hydroxide for, 1,245,984
—, —, alkali salt for, 1,245,984
—, —, amino-compound for, 1,245,984
—, —, ammonium carbonate for, 1,245,984
—, —, ammonium hydroxide for, 1,245,984
—, —, ammonium sulfate for, 1,245,984
—, —, aniline for, 1,245,984
—, —, apparatus for, 1,180,516
—, —, asbestos for, 1,158,667
—, —, bean for, 1,245,984
—, —, bean proteid for, 1,245,984
—, —, benzine for, 1,245,984
—, —, benzoic acid for, 1,245,984
—, —, borax for, 1,245,984
Board, mfr. of, cardboard for, 1,188,040
—, —, castor oil for, 1,245,984
—, —, cellulose derivatives for, 1,245,984
—, —, cellulose ester for, 1,245,984
—, —, cereal for, 1,245,984
—, —, citric acid for, 1,245,984
—, —, clay for, 1,158,667; 1,188,040
—, —, corn for, 1,245,984
—, —, corn proteid for, 1,245,984
—, —, cresol for, 1,245,984
—, —, fatty acids for, 1,245,984
—, —, ferment, acetic acid for, 1,245,984
—, —, —, lactic acid for, 1,245,984
—, —, fiber board for, 1,180,516
—, —, formaldehyde for, 1,245,984
—, —, formic acid for, 1,245,984
—, —, glue, animal, for, 1,158,667
—, —, —, vegetable, for, 1,158,667
—, —, glycine for, 1,245,984
—, —, grain for, 1,245,984
—, —, graphite for, 1,158,667
—, —, hexamethylenetetramine for, 1,245,984
—, —, hydrocellulose for, 1,245,984
—, —, lactic acid for, 1,245,984
—, —, malic acid for, 1,245,984
—, —, malonic acid for, 1,245,984
—, —, mineral wool for, 1,158,667
—, —, naphthylamine for, 1,245,984
—, —, nitro-cresol for, 1,245,984
—, —, oxycellulose for, 1,245,984
—, —, paper for, 1,180,516; 1,188,040
—, —, paper, corrugated, for, 1,158,667
—, —, peas for, 1,245,984
—, —, pea proteid for, 1,245,984
—, —, phenol for, 1,245,984
—, —, phenols for, 1,245,984
—, —, phenyl-propionic acid for, 1,245,984
—, —, phosphoric acid for, 1,245,984
—, —, process for, 1,158,667; 1,180,516; 1,188,040; 1,245,984
—, —, propionic acid for, 1,245,984
—, —, proteid for, 1,245,984
—, —, pyridine for, 1,245,984
—, —, resorcinol for, 1,245,984
—, —, salicylic acid for, 1,245,984
—, —, sawdust for, 1,158,667
—, —, sodium chloride for, 1,245,984
—, —, sodium phosphate for, 1,245,984
—, —, sodium silicate for, 1,158,667; 1,188,040
—, —, straw board for, 1,188,040
—, —, sulfuric acid for, 1,245,984
—, —, sulfurous acid for, 1,245,984
—, —, tartaric acid for, 1,245,984
—, —, trioxymethylene for, 1,245,984
—, —, triphenyl glycerol for, 1,245,984
—, —, urea for, 1,245,984
—, —, varnish for, 1,180,516
—, —, wheat for, 1,245,984
—, —, wheat proteid for, 1,245,984
—, thin, bleaching of, apparatus for, 1,128,073
—, *veneer, see Veneer board*
—, water-proof, mfr. of, 1,303,753
—, water-resistant, mfr. of, asbestos for, 1,159,866
—, —, —, cement, hydraulic, for, 1,159,886

Board, water-resistant, mfr. of, mineral wool for, 1,159,866
—, —, —, process for, 1,159,866
—, *see also Plaster board; Wall board*
Boat, see also Ship
Boat mending composition, mfr. of, acetic acid for, 1,389,084
—, —, acetone for, 1,389,084
—, —, alcohols for, 1,389,084
—, —, aluminum for, 1,389,084
—, —, amyl acetate for, 1,389,084
—, —, aniline for, 1,389,084
—, —, balsams for, 1,389,084
—, —, barium sulfate for, 1,389,084
—, —, calcium carbonate for, 1,389,084
—, —, camphor for, 1,389,084
—, —, carmine for, 1,389,084
—, —, castor oil for, 1,389,084
—, —, celluloid for, 1,389,084
—, —, cellulose acetate for, 1,389,084
—, —, cellulose butyrate for, 1,389,084
—, —, cellulose ester for, 1,389,084
—, —, cellulose ether for, 1,389,084
—, —, cellulose nitrate for, 1,389,084
—, —, cotton for, 1,389,084
—, —, cresol for, 1,389,084
—, —, ethyl acetate for, 1,389,084
—, —, ethyl cellulose for, 1,389,084
—, —, fusel oil for, 1,389,084
—, —, gold for, 1,389,084
—, —, gums for, 1,389,084
—, —, lampblack for, 1,389,084
—, —, molasses for, 1,389,084
—, —, naphthalene for, 1,389,084
—, —, naphthol for, 1,389,084
—, —, nitrobenzene for, 1,389,084
—, —, oil, essential, for, 1,389,084
—, —, phenol for, 1,389,084
—, —, pigment for, 1,389,084
—, —, process for, 1,389,084
—, —, resins for, 1,389,084
—, —, shellac for, 1,389,084
—, —, triphenyl phosphate for, 1,389,084
—, —, zinc oxide for, 1,389,084
Bobbins, cleaning of, apparatus for, 1,235,399
Bockshornsamen, see Trigonella
Bodies, metallic, producing, 1,342,801
—, metals extracted from, apparatus, electrolytic, for, 1,123,683
—, preserving of, acetylene for, 1,365,639
—, —, apparatus for, 1,213,335
—, —, arsenic for, 1,365,639
—, —, calcium carbide for, 1,365,639
—, —, calcium chloride for, 1,213,335
—, —, formaldehyde for, 1,338,579; 1,365,639
—, —, glycerol for, 1,365,639
—, —, gypsum for, 1,213,335
—, —, lime for, 1,365,639
—, —, *liquor aesolis* for, 1,365,639
—, —, mercuric chloride for, 1,365,639
—, —, process for, 1,213,335
—, —, vaseline for, 1,365,639
—, —, *see also Embalming fluid*
—, preserving dead, 1,365,639
Boge tree sawdust, tar paper made with, 1,203,403
Bog-fiber, insulation, heat made with, 1,180,702
Bog-iron ore, ammonium nitrate, treatment of with, 1,263,363
—, cement, ferric made with, 1,255,995
—, fertilizer contg., 1,263,363
—, —, petroleum filtered through, 1,312,375
—, *see also Limonite*
Bog manganese, see Wad
Bog moss, fuel, briquet, made with, 1,194,613
—, petroleum gas burner lighter made with, 1,194,613
Bog ore, see Bog iron ore
—, *see also Limonite*
Bog peat, see Peat
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—, salve for, 1,470,422
Boiler, corrosion prevented of, barium hydroxide for, 1,235,815
—, —, calcium hydroxide for, 1,235,815
—, —, chromic acid for, 1,235,815
—, —, electrode for, 1,506,306; 1,506,307; 1,506,308
—, —, potassium bichromate for, 1,235,815
—, —, potassium bromate for, 1,235,815
—, —, potassium carbonate for, 1,235,815
—, —, potassium chlorate for, 1,235,815
—, —, potassium chromate for, 1,235,815
—, —, potassium cyanide for, 1,235,815
—, —, potassium ferricyanide for, 1,235,815
—, —, potassium ferrocyanide for, 1,235,815
—, —, potassium iodate for, 1,235,815
—, —, potassium permanganate for, 1,235,815
—, —, process for, 1,235,815; 1,506,306; 1,506,307; 1,506,308
—, —, sodium acetate for, 1,235,815
—, —, sodium bicarbonate for, 1,235,815
—, —, sodium borate for, 1,235,815
—, —, sodium carbonate for, 1,235,815
—, —, sodium hydroxide for, 1,235,815
—, —, sodium phosphate (Na_2HPO_4), for, 1,235,815
—, covering, non-conducting material for, mfr. of, 1,450,856
—, electrode mounted in, phenol aldehyde condensate for, 1,366,257
—, —, process for, 1,366,257
—, leak in, composition for stopping, 1,383,572
—, *leaks stopped in, composition for, see Anti-leak composition*
—, non-conducting material for covering, mfr. of, 1,450,856
—, *scale in, preventing formation of, see Water, softening*
—, scale formation in, preventing, 1,440,103
—, steam accumulator for, 1,292,060
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Boiler compounds, calcium oxide in, 1,509,352
—, crude oil in, 1,509,352
—, graphite in, 1,188,676
—, mfr. of, alkali amalgam for, 1,181,562
—, —, alkali chromate for, 1,181,562
—, —, benzine for, 1,182,947
—, —, carbohydrate for, 1,181,562

Boiler compounds, mfr. of, catechu for, 1,181,562; 1,223,547; 1,416,925
—, —, copper(ic) sulfate for, 1,223,547
—, —, cutch for, 1,181,562; 1,416,925
—, —, dextrin for, 1,181,562; 1,210,965
—, —, gambier for, 1,416,925
—, —, gasolene for, 1,182,947
—, —, gelatin for, 1,181,562
—, —, gums for, 1,181,562
—, —, hydrocarbon for, 1,182,947; 1,485,659
—, —, kerosene for, 1,181,562; 1,485,659
—, —, lubricating oil for, 1,485,659
—, —, mangrove bark for, 1,416,925
—, —, mercury for, 1,181,562; 1,210,965
—, —, naphtha for, 1,182,947
—, —, naphthalene for, 1,182,947
—, —, oil, mineral, for, 1,485,659
—, —, petroleum for, 1,210,965
—, —, potato for, 1,223,547; 1,416,925
—, —, process for, 1,181,562; 1,182,947; 1,210,965; 1,223,547; 1,416,925; 1,485,659
—, —, soap, green, for, 1,181,562
—, —, —, seal oil, for, 1,181,562
—, —, —, whale oil, for, 1,181,562
—, —, sodium amalgam for, 1,181,562
—, —, sodium carbonate for, 1,181,562; 1,210,965; 1,223,547
—, —, sodium hydroxide for, 1,181,562; 1,210,965; 1,416,925
—, —, sodium phosphate (Na_3PO_4), for, 1,181,562; 1,210,965
—, —, sugars for, 1,181,562
—, —, tannic acid for, 1,210,965
—, —, tannin for, 1,181,562; 1,210,965
—, —, toluene for, 1,182,947
—, —, turpentine oil for, 1,485,659
—, —, zinc for, 1,223,547
—, —, xylene for, 1,182,947
—, oxalic acid in, 1,509,352
—, sodium carbonate in, 1,188,676; 1,509,352
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Boiler economizer, corrosion prevented of, asphalt for, 1,516,341
—, —, oil for, 1,516,341
—, —, pitch for, 1,516,341
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—, *see also Water, boiler feed*
Boiler feed water compounds, see Water, boiler feed-, compound for
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Boiler fur preventative, see Boiler compound
Boiler scale, calcium carbonate in, 1,135,684
—, composition for preventing, formula, mangrove bark, gambier, catechu(cutch), potatoes, sodium hydroxide, 1,416,925
—, *compound for prevention of see Water, boiler feed-, compound for*
—, formation of, 1,462,550
—, formation prevented of, acetic acid for, 1,405,783
—, —, acid for, 1,405,783
—, —, formic acid for, 1,405,783
Boiler scale, formation prevented of, hydrochloric acid for, 1,405,783
—, —, process for, 1,405,783
—, —, *see also Water, softening*
—, magnesia in, 1,135,684
—, prevention of, 1,440,103
—, *prevention of formation of, see Boiler compound*
—, removal of, carbon dioxide for, 1,135,684
—, —, crude oil for, 1,139,873
—, —, graphite for, 1,139,873
—, —, kerosene for, 1,139,873
—, —, process for, 1,139,873
—, remover for, crude oil in, 1,293,585
—, —, graphite in, 1,294,738
—, —, mfr. of, 1,293,585
—, —, sodium carbonate in, 1,293,585
—, —, sodium hydroxide in, 1,294,738
—, —, tan bark in, 1,294,738
—, —, tannin in, 1,294,738
—, —, urine in, 1,293,585
—, *removing, see Boiler scale remover*
—, *see also Boiler compound*
Boiler scale preventative, see Boiler compound
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—, calcium phosphate in, 1,462,550
—, coal tar in, 1,462,550
—, formula, horn 15 lbs., sodium carbonate 1 lb., calcium phosphate ½ lb., coal tar 1 gallon, 1,462,550
—, horn in, 1,462,550
—, keratin in, 1,462,550
—, sodium carbonate in, 1,462,550
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—, *see also Water, boiler feed*
Bois d'arc, see Osage orange
Bois de Campeche, see Logwood
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—, *see also Soap bark*
Bole, casein article colored, made with, 1,159,878
—, *see also Aluminum silicate; Clay; Hallosite; Indian Red; Iron(ic) oxide; Red ocher*
Bole armen, can sealing composition contg., 1,422,114
—, composition of, 1,422,114
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—, —, composition for, 1,403,403
—, —, hydrocarbon for, 1,513,138
—, —, insecticide for, 1,185,603; 1,496,436
—, —, —, formula, arsenic trioxide 12 lbs., baking soda 4 oz., wood ashes, 300 lbs., 1,395,919
—, —, potassium cyanide for, 1,431,880
—, —, process for, 1,513,137; 1,513,138
—, —, sodium cyanide for, 1,431,880
—, insecticide for, 1,153,974; 1,468,342
—, —, alum in, 1,313,724
—, —, astyptodyne in, 1,253,932
—, —, kerosene in, 1,253,932
—, —, licorice in, 1,313,724
—, —, Paris green in, 1,313,724
—, —, pepper, Cayenne, in, 1,313,724
—, —, —, red, in, 1,313,724
—, —, potassium carbonate in, 1,313,724

Boll weevil, insecticide for, potassium hydroxide in, 1,313,724
—, —, Sloan's liniment in, 1,253,932
—, —, turpentine in, 1,253,932
—, spray for, mfr. of, camphor for, 1,494,101
—, —, —, kerosene for, 1,494,101
—, —, —, process for, 1,494,101
—, *see also Cotton boll weevil*
Bolognian spar, see Barite
Bolt, rusty, loosening, see Rust, removing, compound for, formula
Bolt anchor, construction of, 1,326,663
Bolting cloth, fabric, decorating of, using, 1,211,455
—, felt, decorating of, using, 1,211,455
—, motion picture screen made with, 1,206,287
—, stencil made with, 1,220,850; 1,238,906; 1,244,188; 1,244,189; 1,289,725
—, surfaces, decorating of, using, 1,211,455
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Bolus gauze, see Kaolin gauze
Bolus rubra, see Bole Armenian
Bombs, filling material for, diazodinitrophenol as, 1,428,011
—, incendiary, mfr. of, process for, 1,237,266
—, —, mixture for, 1,395,769
—, mfr. of, blasting gelatin for, 1,211,919
—, —, fulminate for, 1,211,919
—, —, nitroglycerol for, 1,179,920
—, —, process for, 1,211,919
—, —, trinitro-toluene for, 1,211,919
Bombax cotton, see Cotton, bombax
"Bon Ami," polish contg., 1,473,947
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—, —, process for, 1,236,380
—, —, sugar for, 1,236,380
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Bonding clay, see Clay
—, *see also Clay bonding*
Bonding material, see Stone, artificial
Bone, amines made with, 1,504,730
—, ammonia made with, 1,504,730
—, ammonium bifluoride made with, 1,235,552
—, ammonium fluoride made with, 1,235,552
—, bacteria medium contg., 1,368,249
—, battery, storage, separator for, made with, 1,200,345
—, belting made with, 1,151,690
—, bone black made with, 1,518,289
—, brake lining made with, 1,151,690; 1,162,371
—, burnt, iron, cast, hardening of using, 1,194,756
—, calcium phosphate acid made with, 1,255,829
—, caoutchouc composition contg., 1,437,487
—, carbon, decolorizing, made with, 1,504,730
—, carbon dioxide made with, 1,504,730
—, case hardening using, 1,226,739
—, case hardening process using, 1,247,863
—, casein composition made with, 1,437,487
—, charcoal, animal, made with, 1,151,553
—, clutch lining made with, 1,151,690
—, collagen from, 1,457,319; 1,457,320
—, diaphragm, sound reproducing, made with, 1,201,958
—, doll made with, 1,199,251
—, dyeing of, acacia for, 1,358,456
Bone, dyeing of, hematein for, 1,358,456
—, —, iron(ous) sulfate for, 1,358,456
—, —, nigrosin for, 1,358,456
—, —, nut galls for, 1,358,456
—, —, potassium ferricyanide for, 1,358,456
—, —, process for, 1,358,456
—, —, pyroligneous acid for, 1,358,456
—, ethyl alcohol, denatured, made using, 1,176,150; 1,176,462
—, fat, extraction of from, process for, 1,503,751
—, fertilizer made with, 1,235,906; 1,255,829; 1,283,678; 1,293,220; 1,501,915
—, fiber board made with, 1,514,655
—, flotation of, 1,426,596
—, friction lining made with, 1,151,690; 1,162,371
—, gaskets made with, 1,151,690; 1,162,371
—, gelatin made with, 1,289,053
—, goiter, treatment of, using, 1,190,831
—, glue made with, 1,176,644; 1,289,053; 1,364,904
—, ground, fertilizer contg., 1,440,836
—, hydrofluoric acid made with, 1,283,398
—, hydrogen made with, 1,504,730
—, iron, case-hardening of using, 1,172,837; 1,478,367
—, iron alloys, case-hardening of using, 1,478,367
—, ketones made with, 1,504,730
—, lubricating oil made with, 1,374,277
—, methane made with, 1,504,730
—, oils made with, 1,504,730
—, oil, extraction of from, process for, 1,503,751
—, packing made with, 1,151,690; 1,162,371
—, paint contg., 1,428,152
—, phenol aldehyde condensate, compound of and, 1,133,083; 1,259,472; 1,259,473
—, phonograph needle made with, 1,197,165; 1,221,348; 1,266,949
—, phosphoric acid made with, 1,283,398
—, phosphoric acid, crystallized, made with, 1,283,398
—, —, meta, made with, 1,283,398
—, —, ortho, made with, 1,283,398
—, —, pyro, made with, 1,283,398
—, phosphorus pentoxide made with, 1,283,398
—, plastic made with, 1,199,251
—, potassium carbonate made with, 1,405,371; 1,504,730
—, potassium chloride made with, 1,405,371; 1,504,730
—, potassium cyanide made with, 1,405,371
—, potassium ferrocyanide made with, 1,405,371
—, potassium sulfate made with, 1,504,730
—, pyridine made with, 1,490,736
—, size made with, 1,289,053
—, steamed, bone black made with, 1,518,072
—, steel, case-hardening of using, 1,478,367
—, —, chromium, case-hardening of using, 1,478,367
—, —, manganese, case-hardening of using, 1,478,367
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—, —, process for, 1,231,247
Bone ash, aluminum sulfate made with, 1,126,408
—, brick made with, 1,245,285

Bone ash, calcium phosphate ($Ca\ H_4(PO_4)_2$, made with, 1,221,441; 1,221,442
—, calcium silicate (Ca_2SiO_4), made with, 1,126,408
—, catalyst, for the mfr. of nitrogen oxides, made with, 1,239,125
—, ceramic ware made with, 1,245,285
—, cesium sulfate made with, 1,126,408
—, copper hydrogen phosphate from, 1,388,325
—, enamelling frit contg., 1,360,317; 1,360,318
—, ethyl alcohol from cellulose sulfite liquor and, 1,320,043
—, fertilizer made with, 1,126,408
—, glaze made with, 1,245,285
—, iron, cleaning of, using, 1,221,441; 1,221,442
—, —, rustproofing of, using, 1,221,441
—, lithium sulfate made with, 1,126,408
—, metal, cleaning of, using, 1,221,441; 1,221,442
—, —, rustproofing of, using, 1,221,441; 1,221,442
—, nitrogen oxides, catalyst for the mfr. of, made with, 1,239,125
—, oils purified with, 1,404,374; 1,404,375
—, petroleum decolorized using, 1,404,374; 1,404,375
—, phosphoric acid made with, 1,126,408
—, phosphorus made with, 1,274,479
—, potassium aluminum sulfate made with, 1,126,408
—, potassium sulfate made with, 1,126,408
—, rubidium sulfate made with, 1,126,408
—, sodium sulfate made with, 1,126,408
—, steel, cleaning of, using, 1,221,441; 1,221,442
—, —, rustproofing of, using, 1,221,441; 1,221,442
— thermal insulating properties of, 1,435,416
—, tile made with, 1,245,285
—, *see also Apatite; Calcium carbonate; Calcium phosphate* ($Ca_3(PO_4)_2$; *Phosphate rock*
Bone black, aluminum hydroxide, colloidal solutions of, made using, 1,514,737
—, artificial, mfr. of, 1,448,846
—, bowling ball made with, 1,203,747
—, butylene glycol made with, 1,308,796; 1,308,797
—, calcium carbonate in, 1,518,289
—, calcium phosphate in, 1,518,289
—, calcium sulfate in, 1,518,289
—, camphor, crude, purification of with, 1,308,398
—, carbon in, 1,518,289
—, carbonates in, 1,496,229
—, case hardening compound contg., 1,308,239
—, catalyst, butylene chlorhydrin made with, 1,253,617
—, —, butylene glycol made with, 1,253,617
—, —, butylene oxide made with, 1,253,617
—, —, ethylene chlorhydrin made with, 1,253,617
—, —, ethylene glycol made with, 1,253,617
—, —, ethylene oxide made with, 1,253,617
—, —, hydrogenation, made with, 1,174,245
—, —, olefin chlorhydrin made with, 1,253,617
—, —, olefin glycol made with, 1,253,617
—, —, olefin oxide made with, 1,253,617
—, —, propylene chlorhydrine made with, 1,253,617
Bone black, catalyst, propylene glycol made with, 1,253,617
—, —, propylene oxide made with, 1,253,617
—, catalyst in corbonyl chloride mfr., 1,457,493
—, catalyst in propylene chlorination, 1,466,665
—, catalyst support for hydrogenation, 1,300,144
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—, cement, paint for, made with, 1,179,413
—, ceramic material, copper coating applied to using, 1,126,211
—, —, nickel coating applied to using, 1,126,211
—, chlorhydrin made with, 1,308,796; 1,308,797
—, chlorides in, 1,496,229
—, cider preserving of using, 1,284,187
—, coating composition made with, 1,179,413
—, colloidal solutions made using, 1,514,737
—, composition of, 1,177,725; 1,518,289
—, concrete, paint for, made with, 1,179,413
—, copper hydroxide, colloidal solutions of, made using, 1,514,737
—, *s*-dichlor-ethane made with, 1,224,485
—, 1.2-dichlor-propane made with, 1,224,485
—, dye, film, cellulose acetate, removal from of, using, 1,497,137; 1,497,138
—, —, —, cellulose ether, removal from of, using, 1,497,137; 1,497,138
—, —, —, cellulose nitrate, removal from of, using, 1,497,137; 1,497,138
—, —, —, photographic, removal from of, using, 1,497,137; 1,497,138
—, ethylene chlorhydrin made with, 1,308,796; 1,308,797
—, ethylene oxide made with, 1,308,796; 1,308,797
—, fat, solvent for, made with, 1,224,485
—, fertilizer made with, 1,501,915
—, film, cellulose acetate, dye, removal of from, using, 1,497,137; 1,497,138
—, —, cellulose ether, dye, removal of from, using, 1,497,137; 1,497,138
—, —, cellulose nitrate, dye, removal of from, using, 1,497,137; 1,497,138
—, —, photographic, dye, removal of from, using, 1,497,137; 1,497,138
—, filter made with, 1,147,991
—, fish oil, hydrogenation of, catalyst for, made with, 1,174,245
—, food product made with, 1,165,199
—, fruit juice, preserving of using, 1,284,187
—, gasolene purified with, 1,277,329
—, glass, copper coating applied to using, 1,126,211
—, —, metal coating applied to using, 1,126,211
—, —, nickel coating applied to using, 1,126,211
—, glucose purified with, 1,314,203
—, glycol made with, 1,308,796; 1,308,797
—, glycol esters made with, 1,308,796; 1,308,797
—, glycol ethers made with, 1,308,796; 1,308,797
—, grease, solvent for, made with, 1,224,485
—, hydrogenation with, 1,300,144
—, hydrogenation, catalyst for, made with, 1,174,245
—, iron, case-hardening of using, 1,131,801; 1,156,679
—, iron hydroxide, colloidal solutions of, made using, 1,514,737

Bone black, iron peroxide in, 1,518,289
—, iron rust preventing paint contg., 1,367,597
—, japan contg., 1,294,422; 1,294,627; 1,493,247
—, kelp leach liquor treated with, 1,283,547
—, kerosene purified with, 1,277,329
—, lactic acid decolorized with, 1,459,395
—, lactic acid purified with, 1,459,395
—, lactose purified with, 1,314,203
—, lemon juice, preserving of using, 1,284,187
—, linseed oil substitute made with, 1,384,447
—, lubricant, used, treatment of with, 1,281,354; 1,281,355
—, lubricating oil purified with, 1,277,329
—, magnesium hydroxide, colloidal solution of, made using, 1,514,737
—, magnesium phosphate in, 1,518,289
—, maltose purified with, 1,314,203
—, *d*-mannose made with, 1,478,588
—, mfr. of, asphalt for, 1,518,072
—, —, benzene for, 1,518,289
—, —, bitumen for, 1,518,289
—, —, bone for, 1,518,289
—, —, bone, steamed, for, 1,518,072
—, —, bone oil as by product of, 1,182,501
—, —, hydrocarbon for, 1,518,289
—, —, hydrochloric acid for, 1,518,289
—, —, oil, animal, for, 1,518,289
—, —, —, vegetable, for, 1,518,289
—, —, pitch for, 1,518,072
—, —, process for, 1,518,072; 1,518,289
—, medicinal oil purified with, 1,277,329
—, mellitic acid made with, 1,134,956
—, metal hydroxide, colloidal solution of, made using, 1,514,737
—, milk, artificial, made with, 1,165,199
—, molasses purified with, 1,314,203; 1,314,204
—, nitrogen, effect of in, 1,518,072
—, oil, drying, made with, 1,384,447
—, —, lubricating, decolorized with, 1,295,308
—, —, —, treatment of with, 1,281,354; 1,281,355
—, —, solvent for, made with, 1,224,485
—, oil clarified with, 1,414,695
—, olefin glycol made with, 1,308,796; 1,308,797
—, orange juice preserving of using, 1,284,187
—, paint made with, 1,179,413; 1,367,597
—, paraffin purified with, 1,277,092; 1,277,329
—, petroleum filtered through, 1,312,375
—, phosphoric acid made with, 1,487,205
—, phosphorus made with, 1,441,573
—, pine oil made with, 1,505,438
—, porcelain, copper coating applied to using, 1,126,211
—, —, metal coating applied to using, 1,126,211
—, —, nickel coating applied to using, 1,126,211
—, potassium bitartrate made with, 1,135,216; 1,278,257
—, propylene glycol made with, 1,308,796; 1,308,797
—, resin made using, 1,505,438
—, revivifying of, air for, 1,184,397
—, —, ammonium hydroxide for, 1,502,076
—, —, apparatus for, 1,184,397; 1,184,398; 1,207,178; 1,475,502; 1,513,622
—, —, calcium oxide for, 1,177,725
—, —, coal for, 1,184,397
—, —, coke for, 1,184,397
—, —, gas for, 1,184,397
Bone black, revivifying of, oil for, 1,184,397
—, —, process for, 1,177,725; 1,184,397; 1,207,178; 1,502,076; 1,513,622
—, silica in, 1,518,289
—, sodium chloride in, 1,518,289
—, sorghum purified with, 1,314,203; 1,314,204
—, steel, case-hardening of using, 1,131,801; 1,156,679
—, stoneware, copper coating applied to using, 1,126,211
—, —, metal coating applied to using, 1,126,211
—, —, nickel coating applied to using, 1,126,211
—, substitute for, mfr. of, 1,448,846
—, sucrose purified with, 1,314,203
—, sugar, beet, purified with, 1,314,203; 1,314,204
—, —, —, solution, purification of using, 1,176,999
—, —, cane, purified with, 1,314,203; 1,314,204
—, —, —, solution, purification of using, 1,176,999
—, —, crystallization of, using, 1,228,910
—, sugar decolorized using, 1,221,553; 1,221,554
—, sugar liquor purified with, 1,314,203; 1,314,204
—, sugar purified with, 1,314,203; 1,314,204
—, sulfates in, 1,496,229
—, sulfur dioxide, absorption of by, 1,145,579
—, —, removal of from, 1,145,579
—, sulfur dioxide recovered using, 1,145,579
—, syrup purified with, 1,314,203; 1,314,204
—, terra cotta, copper coating applied to using, 1,126,211
—, —, metal coating applied to using, 1,126,211
—, —, nickel coating applied to using, 1,126,211
—, turpentine made with, 1,505,438
—, washing oil out of, soap solution for, 1,356,631
—, *see also Carbon; Carbon, decolorizing; Charcoal, animal; Drop black*
Bone black substitute, mfr. of, alkali phosphate for, 1,496,229
—, —, calcium carbonate for, 1,496,229
—, —, calcium phosphate ($Ca_3P_2O_8$), for, 1,496,229
—, —, calcium salt for, 1,496,229
—, —, carbon for, 1,496,229
—, —, dextrin for, 1,496,229
—, —, glue for, 1,496,229
—, —, pitch for, 1,496,229
—, —, process for, 1,496,229
—, —, starch for, 1,496,229
—, —, tar for, 1,496,229
—, *see also Carbon, decolorizing*
Bone char, antiseptic made with, 1,425,882; 1,425,883; 1,425,884
—, case hardening compound contg., 1,269,957
—, chlorinated compound made with, 1,425,882; 1,425,883; 1,425,884
—, cutting oil made with, 1,425,882; 1,425,883; 1,425,884
—, dextrose made with, 1,471,347
—, gasolene made with, 1,239,423; 1,324,075
—, *d*-glucose made with, 1,508,569
—, grease made with, 1,425,882; 1,425,883; 1,425,884
—, hydrogenated compound made with, 1,425,882; 1,425,883; 1,425,884

Bone char, medicinal compound made with, 1,425,882; 1,425,883; 1,425,884
—, nitrated compound made with, 1,425,882; 1,425,883; 1,425,884
—, oil, drying, made with, 1,425,882; 1,425,883; 1,425,884
—, oils treated with, 1,425,882; 1,425,883; 1,425,884; 1,425,885
—, recovery of, 1,440,194; 1,440,195
—, revivifying of, apparatus for, 1,475,502
—, saponifiable derivatives from mineral oils prepared with, 1,425,884
—, soap made with, 1,425,882; 1,425,883; 1,425,884
—, sulfonated compound made with, 1,425,882; 1,425,883; 1,425,884
—, *see also Bone black*
Bone charcoal, kerosene deodorized with, 1,428,056
—, oils extracted from, 1,351,483
—, *see also Charcoal, bone*
Bone char filter, cleaning of, process for, 1,240,290
Bone coal, see Coal, waste
Bone dust, fertilizer made with, 1,128,446
—, iron, rust-proofing of using, 1,157,283
—, lubricating oil decolorized with, 1,303,292
—, shoe filler made with, 1,136,980
—, steel, rust-proofing of using, 1,157,283
—, steel treating composition contg., 1,372,364
—, soap, hard, made with, 1,138,230
Bone fat pitch, emulsifying of, process for, 1,440,356
Bone fellon, salve for, 1,470,422
Bone glue, see Glue, bone
Bone meal, bacterial compost made with, 1,515,016
—, fertilizer made with, 1,168,255
—, fertilizer ingredient, 1,413,013
—, steel carburized with, 1,405,553
—, condensation product of phenol and, wood impregnated with, 1,463,674
—, emulsion of, mfr. of, castor oil for, 1,229,681
—, —, —, castor oil, alkali compound of, for, 1,229,681
—, —, —, cresols for, 1,229,681
—, —, —, naphthols for, 1,229,681
—, —, —, phenols for, 1,229,681
—, —, —, process for, 1,229,681
—, —, —, soap, castor oil, for, 1,229,681
—, —, —, sodium hydroxide for, 1,229,681
Bone oil, ethyl alcohol denatured with, glycol made with, 1,206,222
—, fuel, liquid, made with, 1,248,302
—, mfr. of, bone black byproduct, 1,182,501
—, pyridine made with, 1,490,736
—, rubber, vulcanization accelerator for of, 1,182,501
—, rubber substitute made with, 1,151,948
—, wood impregnating composition contg., 1,463,674
—, *see also Oil, animal; Pyridine*
Bone phosphate, ammonium potassium phosphate ($K(NH_4)HPO_4$), made with, 1,357,120
—, fertilizer made with, 1,158,711; 1,163,130; 1,173,303; 1,283,678; 1,495,270
—, *see also Calcium phosphate* ($Ca_3P_2O_8$)
Boneset, see Eupatorium
Bone substitute, mfr. of, aluminum oxychloride for, 1,175,425
—, —, barium oxychloride for, 1,175,425
—, —, camphor for, 1,175,425
—, —, cellulose sulfite liquor for, 1,175,425
—, —, kaolin for, 1,175,425
—, —, magnesium chloride for, 1,175,425
—, —, magnesium oxide for, 1,175,425
—, —, magnesium oxychloride for, 1,175,425
—, —, metal chloride for, 1,175,425
—, —, metal oxide for, 1,175,425
—, —, metal oxychloride for, 1,175,425
—, —, process for, 1,175,425; 1,252,849; 1,252,850
—, —, silica for, 1,175,425
—, —, wood flour for, 1,175,425
—, —, "xyloso" for, 1,175,425
—, —, zinc oxychloride for, 1,175,425
Bone tar, see Bone oil
Bonite, see Katsuobushi
Bonny-clabber, paint made with, 1,227,071
Book, animal life destroyed in, X-ray apparatus for, 1,275,417
—, fabric covering for, 1,124,087
—, insects destroyed in, X-ray apparatus for, 1,275,417
—, insect eggs destroyed in, X-ray apparatus for, 1,275,417
—, mfr. of, adhesive for, 1,341,782
—, —, rubber adhesive for, 1,341,782
—, sterilization of, X-ray apparatus for, 1,275,417
—, transfer-sheet for marking on, 1,280,399
Book-binder's paste, see Paste, book-binder's
Book binding, coating for, mfr. of, 1,322,786
—, leather, treatment of, diatomaceous earth for, 1,166,845; 1,166,846
—, —, —, gasolene for, 1,166,845; 1,166,846
—, —, —, hydrocarbon for, 1,166,845; 1,166,846
—, —, —, naphthalene for, 1,166,845; 1,166,846
—, —, —, paraffin for, 1,166,845; 1,166,846
—, —, —, process for, 1,166,845; 1,166,846
—, —, —, rosin for, 1,166,845; 1,166,846
—, —, —, silica for, 1,166,845; 1,166,846
Bookbinding gum, formula, celluloid 1¼ lb., acetone 1 gal., gum rubber dissolved in benzene or carbon tetrachloride 1 gal., 1,389,574
—, *see also Adhesive; Acacia; Glue; Size; Tragacanth*
Book cloth, mfr. of, albumen for, 1,505,043
—, —, balata for, 1,505,043
—, —, balsams for, 1,505,043
—, —, British gum for, 1,505,043
—, —, camphor for, 1,505,043
—, —, caoutchouc for, 1,505,043
—, —, casein for, 1,505,043
—, —, castor oil, sulfonated, for, 1,505,043
—, —, cellulose acetate for, 1,505,043
—, —, cellulose derivative for, 1,505,043
—, —, cellulose ether for, 1,505,043
—, —, cellulose formate for, 1,505,043
—, —, cellulose nitrate for, 1,505,043
—, —, colloid for, 1,505,043
—, —, cuprammonium cellulose for, 1,505,043
—, —, dextrin for, 1,505,043
—, —, ethyl cellulose for, 1,505,043
—, —, fats for, 1,505,043
—, —, fatty acids for, 1,505,043

Book cloth, gelatin for, 1,505,043
—, —, glue for, 1,505,043
—, —, glycerol for, 1,505,043
—, —, gutta percha for, 1,505,043
—, —, naphthalene for, 1,505,043
—, —, oils for, 1,505,043
—, —, paraffin for, 1,505,043
—, —, phenol aldehyde condensate for, 1,505,043
—, —, phenols, phosphoric acid esters of, for, 1,505,043
—, —, process for, 1,505,043
—, —, resins for, 1,505,043
—, —, soap for, 1,505,043
—, —, starch for, 1,505,043
—, —, sugars for, 1,505,043
—, —, tragacanth for, 1,505,043
—, —, tragasol for, 1,505,043
—, —, viscose for, 1,505,043
—, —, wax for, 1,505,043
—, *see also Duratex; Fabrikoid; Keretol*
Book cover, phenol-aldehyde condensate for impregnating, 1,365,334
Book-gutta, see Gutta-siak
Boot, rubber, vulcanization of, alloy, fusible for, 1,152,834
—, —, —, barium nitrate for, 1,152,834
—, —, —, calcium chloride bath for, 1,152,834
—, —, —, calcium nitrate for, 1,152,834
—, —, —, glycerol for, 1,152,834
—, —, —, potassium acetate for, 1,152,834
—, —, —, potassium carbonate for, 1,152,834
—, —, —, potassium hydroxide for, 1,152,834
—, —, —, process for, 1,152,834; 1,152,835; 1,152,836; 1,152,837; 1,152,838
—, —, —, sodium hydroxide for, 1,152,834
—, —, —, sulfur for, 1,152,834
—, —, —, tar for, 1,152,834
—, —, —, wax for, 1,152,834
—, —, *see also Rubber boot*
—, *see also Shoe*
Boracic acid, see Boric acid
Boracite, enamel, iron, made with, 1,256,456
Borates, abrasive, etching of using, 1,482,793
—, acetyl-salicylic acid, product contg., made with, 1,486,373
—, adhesive, fireproof, made with, 1,248,092
—, alkali earth metals alloys prepared with, 1,359,813
—, boron contg., alloy from, 1,359,813
—, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, bromine made with, 1,184,806
—, butylene chlorhydrin made with, 1,253,617
—, butylene glycol made with, 1,253,617
—, butylene oxide made with, 1,253,617
—, caliche contg., 1,516,550
—, catalyst, dehydrogenation, made with, 1,215,334
—, —, hydrogenation, made with, 1,215,334
—, catalyst prepared with, 1,338,709
—, celluloid substitute made with, 1,245,975; 1,280,862
—, cellulose acetate, dyeing of, using, 1,489,814
—, cement contg., 1,296,467
—, chlorhydrins made with, 1,465,601; 1,498,781; 1,498,782
—, concentration of, process for, 1,269,170
Borates, condenser, electrolyte, for, contg., 1,266,557
—, —, electrolytic, made with, 1,499,414
—, corundum, etching of using, 1,482,793
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,311,842
—, dehydrogenation, catalyst for, made with, 1,215,334
—, electric current, generator for, made with, 1,225,175
—, electrode, arc-lamp, made with, 1,158,997; 1,164,728
—, —, arc-light, made with, 1,134,148
—, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, electrolytic cell, film forming, made with, 1,499,414
—, emery, etching of using, 1,482,793
—, ethylene chlorhydrin made with, 1,253,617
—, ethylene glycol made with, 1,253,617
—, ethylene oxide made with, 1,253,617
—, explosive contg., 1,464,667
—, explosives, explosion temperature of, reduced with, 1,464,667
—, fabric stiffening material contg., 1,421,700
—, fertilizer made with, 1,144,405
—, film, cellulose acetate, dyeing of, using, 1,489,814
—, —, motion picture, made with, 1,183,698; 1,461,783
—, fire extinguisher made with, 1,248,092
—, fireproofing made with, 1,216,729; 1,248,092; 1,265,549
—, garnet, etching of using, 1,482,793
—, glass, wire sealed in, made with, 1,268,647
—, glass constituent, 1,394,973
—, glycols made with, 1,498,781; 1,498,782
—, hydrogenation, catalyst for, made with, 1,215,334
—, hydroxy-alkylamine made with, 1,498,781; 1,498,782
—, *m*-hydroxybenzoic acid made with, 1,265,378
—, *p*-hydroxybenzoic acid made with, 1,265,378
—, hypochlorous acid made with, 1,498,781; 1,498,782
—, insecticide contg., 1,395,860
—, insulation, electric, made with, 1,245,975
—, iron neutralized in tanning with, 1,426,322;
—, ivory substitute made with, 1,245,975
—, lamp, electric, lead-in, conductor for, made with, 1,268,647
—, lightning arrester, electrolyte for contg., 1,266,557
—, —, electrolytic, made with, 1,499,414
—, light producing apparatus made with, 1,419,360
—, magnesia article, bonded, made with, 1,394,442
—, magnesium aluminate made with, 1,394,442
—, marble substitute made with, 1,245,975
—, nickel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, oak, red, fireproofing of, using, 1,216,729
—, olefin chlorhydrin made with, 1,253,617
—, olefin glycol made with, 1,253,617
—, olefin oxide made with, 1,253,617

Borates, paint contg., 1,265,549
—, paint, fireproof, made with, 1,248,092
—, paper, fireproof sizing for, made with, 1,248,092
—, phenol aldehyde condensate substitute made with, 1,245,975
—, pine, fireproofing of, using, 1,216,729
—, platinum substitute made with, 1,268,647
—, potassium chloride made with, 1,184,806
—, propylene chlorhydrin made with, 1,253,617
—, propylene glycol made with, 1,253,617
—, propylene oxide made with, 1,253,617
—, proteid product made with, 1,245,975
—, quartz, etching of using, 1,482,793
—, rectifier, electrolytic, made with, 1,266,557; 1,499,414
—, —, mercury, lead in conductor for, made with, 1,268,647
—, refractory made with, 1,394,442; 1,420,284
—, rubber substitute made with, 1,245,975
—, salicylic acid made with, 1,265,378
—, sand, etching of using, 1,482,793
—, Searles lake contg., 1,371,954
—, separation from gangue of, 1,269,170
—, silica, etching of using, 1,482,793
—, silica brick made with, 1,420,284
—, silicon carbide, etching of using, 1,482,793
—, silicon nitrogen compounds prepared with, 1,415,280
—, silk, artificial, cellulose acetate, dyeing of, using, 1,489,814
—, spinel, artificial made with, 1,394,442
—, starch, fireproof, made with, 1,248,092
—, steel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, therapeutic product made with, 1,486,373
—, trona made with, 1,184,806
—, varnish, fireproof, made with, 1,248,092
—, water pastes converted to oil pastes with, 1,317,784; Re-15,298
—, wood, fireproofing of, using, 1,216,729; 1,265,549
—, wood preservative contg., 1,265,370
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Borate flux, iron, brass coated, made with, 1,125,158
—, —, bronze coated made with, 1,125,158
—, —, copper coated, made with, 1,125,158
—, —, gold coated, made with, 1,125,158
—, —, silver coated made with, 1,125,158
—, steel, brass coated, made with, 1,125,158
—, —, bronze coated, made with, 1,125,158
—, —, copper coated, made with, 1,125,158
—, —, gold coated, made with, 1,125,158
—, —, silver coated, made with, 1,125,158
Borate of soda, see Borax
Borax, abrasive contg., 1,381,728
—, abrasive, etching of using, 1,482,793
—, acetaldehyde made with, 1,213,486
—, acetylene stored using, 1,304,160
—, adhesive made with, 1,263,634; 1,263,635; 1,337,381; 1,373,412
—, adhesive, fireproof, made with, 1,248,092
—, adhesive for waxed paper contg., 1,408,746
Borax, airplane dope contg., 1,429,295
—, airplane fabric made with, 1,327,707; 1,427,941; 1,429,295
—, airplane fabric fireproofed with, 1,427,941
—, alkali perborate made with, 1,222,640; 1,268,369
—, aluminum made with, 1,217,432
—, aluminum, enamel for, made with, 1,230,958
—, —, sheet, coating for, made with, 1,221,561
—, —, soldering flux for, contg., 1,139,923
—, —, welding flux for, contg., 1,139,923
—, aluminum alloy made with, 1,230,958; 1,326,971
—, aluminum alloy, soldering flux contg., 1,139,923
—, —, welding flux for, contg., 1,139,923
—, aluminum article, filling for joints of, made with, 1,223,458
—, aluminum bronze, steel tube coated with, made with, 1,125,159
—, aluminum solder made with, 1,326,971; 1,416,924
—, aluminum solder flux contg., 1,312,154
—, ammonia made with, 1,255,593
—, anhydrous, solder wire contg., 1,421,491
—, —, steel made with, 1,378,861
—, aniline black dyeing with, 1,329,117
—, anthraquinone derivatives chlorinated in presence of, 1,401,125
—, anti-bacterial action of, 1,128,472
—, anti-freezing compound contg., 1,282,249
—, antiseptic made with, 1,493,564
—, arsenic made with, 1,248,948
—, bacteria, distribution of, composition for, made with, 1,252,332
—, bacteria preparation, dry, made with, 1,288,582
—, bacterial compost made with, 1,252,332
—, baking compound made with, 1,491,380
—, balloon fabric made with, 1,427,941
—, barrel, wood, oil-proof, made with, 1,311,595
—, battery, storage, made with, 1,499,907
—, bedding, fireproof, made with, 1,165,062
—, belt made with, 1,218,052
—, belt dressing made with, 1,218,052
—, benzene made with, 1,255,593
—, bi-metallic article made with, 1,250,612; 1,250,862
—, binder made with, 1,263,634; 1,263,635; 1,271,387; 1,318,106
—, bird-lime thinned with, 1,460,053
—, bituminous material treated with, 1,394,874
—, block, building, contg., 1,305,993
—, bluing made with, 1,219,186
—, boric acid made with, 1,308,577; 1,455,749
—, boron made with, 1,493,126
—, boron carbide (B_4C_3), made with, 1,473,510
—, —, (B_6C), made with, 1,473,510
—, boron nitride made with, 1,135,232
—, boron nitride, stable, made with, 1,157,271
—, boron trichloride made with, 1,183,445
—, boron trioxide made with, 1,493,126
—, box, paper, oil-proof, made with, 1,311,595
—, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842

Borax, brass, steel tube coated with, made with, 1,125,159
—, brass article, filling for joints of, made with, 1,223,458
—, brass flux, 1,309,165
—, brass-refining flux contg., 1,454,351
—, brazing compound contg., 1,349,966
—, brazing flux contg., 1,275,412; 1,428,088; 1,502,144
—, brick, artificial, cutting of, using, 1,494,003
—, —, waterproofing of, using, 1,471,792
—, brine, Owens lake, separation from of, process for, 1,474,433
—, —, —, sodium bicarbonate for, 1,474,433
—, —, separation from of, 1,288,592; 1,288,593; 1,476,873; 1,476,890
—, brine contg., treating, 1,394,978
—, British gum, substitute for made with, 1,263,634; 1,263,635
—, bucking vegetable matter using, 1,156,048
—, cadmium alloy made using, 1,133,019
—, calcimine made with, 1,308,136
—, calcimine, binder for contg., 1,318,106
—, canvas, fluid-proofing of, using, 1,356,267
—, car body, coating for, made with, 1,221,561 1,221,562
—, carpet renovating compound contg., 1,172,297
—, casein glue made with, 1,167,434
—, casein solvent, 1,327,707; 1,370,412; 1,373,412; 1,376,652; 1,415,380
—, cellulose substitute made with, 1,245,975; 1,245,983; 1,245,984
—, cellulose nitrate, coating of for, 1,251,862
—, cellulose sulfite digester, lining for, made with, 1,492,866
—, cement contg., 1,291,769; 1,329,374
—, cement, dental, made with, 1,172,723
—, —, hydraulic, made with, 1,504,829
—, —, magnesium, made with, 1,212,575
—, —, waterproofing of, using, 1,519,285
—, cement contg. casein and, 1,351,874
—, ceramic ware, gold decorated, made with, 1,438,799
—, cerium, action on of, 1,290,010; 1,290,011
—, chain made with, 1,175,941
—, chain-link soldered with, 1,308,741
—, chewing gum made with, 1,438,019
—, 2-chlor-ethanol made with, 1,510,790
—, chlorhydrins made with, 1,465,595; 1,510,790
—, chlorine solution made with, 1,298,553; 1,298,554
—, chromium, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, clay, burnt, waterproofing of using, 1,471,792
—, clay flux contg., 1,442,585
—, cleaner contg., 1,270,105; 1,492,507
—, cleaning composition contg., 1,335,317; 1,449,281; 1,449,330; 1,452,093
—, coal, anthracite, treatment of using, 1,483,318
—, —, bituminous, treatment of using, 1,483,318
—, —, sulfur bearing, made with, 1,183,445
—, coal briquet, binder for, contg., 1,271,387
—, coating, anti-fouling, made with, 1,489,596
—, coating composition contg., 1,460,317
—, cobalt made using, 1,248,948
—, coke, treatment of using, 1,483,318
—, coke briquet, binder for, contg., 1,271,387
Borax, cold cream made with, 1,332,190
—, composition contg. dextrin and, 1,365,760
—, composition for protecting iron from heat contg., 1,366,305
—, concrete, acid-proofing of, using, 1,495,138
—, —, artificial, cutting of, using, 1,494,003
—, —, bonding of, using, 1,495,138
—, —, oil-proofing of, using, 1,495,138
—, —, waterproofing of, using, 1,495,138; 1,519,285
—, condenser, electrolytic, made with, 1,141,402; 1,270,784; 1,499,414
—, container, metal, filling for joints of, made with, 1,223,458
—, —, oil-proof, made with, 1,311,595
—, copper made with, 1,248,948
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, finely divided, made with, 1,257,943
—, —, iron tube coated with, made with, 1,125,159
—, —, sheet, coating for, made with, 1,221,561
—, —, steel tube coated with, made with, 1,125,159
—, copper article, filling for joints of, made with, 1,223,458
—, copper from ore with, 1,306,480
—, cork preserved by, 1,448,276
—, corundum, etching of using, 1,482,793
—, cotton, treatment of using, 1,513,316
—, cotton fabric treated with, 1,360,224
—, cotton seed oil, package for made with, 1,311,595
—, croton bug repelling composition contg., 1,270,630
—, crucible contg., 1,324,546; 1,458,723; 1,458,724; 1,458,725; 1,458,726
—, crucible refractory contg., 1,458,913; 1,479,107
—, crystallization of, 1,415,205
—, crystallization of from brines, 1,370,278
—, dammar, coating of for, 1,251,862
—, dental cement contg., 1,408,960
—, dental filling made with, 1,209,906
—, dentifrice made with, 1,482,741; 1,516,398
—, detergent made with, 1,144,186; 1,151,257; 1,160,563; 1,264,104; 1,280,698; 1,324,764; 1,407,502; 1,481,811
—, dextrin and, composition contg., 1,365,760
—, dextrin substitute made with, 1,263,634; 1,263,635
—, dextrose made with, 1,139,620
—, diamond, polishing of, cement for holding during, made with, 1,364,353
—, diatomaceous earth, treatment of with, 1,503,133
—, diatomaceous earth product made with, 1,502,547
—, diatomite, treatment of with, 1,503,133
—, dyes, removal of by, 1,452,093
—, dyestuff, bucking of, using, 1,156,048
—, electric current, generator for, made with, 1,225,175
—, electrode, arc-light, made with, 1,132,313; 1,134,148; 1,148,183; 1,148,184
—, electrolyte of, 1,439,525; 1,439,526

Borax, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, electrolytic cell, electrolyte for, contg., 1,270,784
—, —, film forming, made with, 1,499,414
—, electrolytic rectifier contg., 1,433,736
—, emery, etching of using, 1,482,793
—, enamel made with, 1,221,561; 1,221,552; 1,425,612; 1,496,505
—, enamel, iron, made with, 1,256,455; 1,245,456
—, —, opaque, made with, 1,220,253; 1,314,831
—, —, white, made with, 1,220,253
—, enameling frit contg., 1,360,317; 1,360,318
—, evaporation preventing foam contg., 1,423,720; 1,423,721; 1,443,538
—, excelsior substitute, fireproof, made with, 1,165,062
—, explosive made with, 1,202,712
—, explosive preserved with, 1,390,671
—, extracting from brines, 1,349,134
—, extraction of, 1,439,061
—, fabric, bleaching of using, 1,289,803
—, —, removing shine from using, 1,480,352
—, —, size for, made with, 1,263,634; 1,263,635
—, fabric stiffening material contg., 1,421,700
—, fat, package for, made with, 1,311,595
—, —, water, mixing of and using, 1,218,010
—, ferro-boro-silicate from, 1,428,061
—, fertilizer made with, 1,252,332
—, fibrous plants, treatment of using, 1,417,889
—, filler made with, 1,242,480
—, filter aid made with, 1,502,547; 1,503,133
—, fire extinguisher made with, 1,248,092; 1,271,506; 1,276,742
—, fireproofing made with, 1,248,092; 1,271,506; 1,276,742; 1,346,287; 1,414,609; 1,418,730; 1,436,231; 1,501,895; 1,501,944
—, fireproofing composition contg., 1,396,264
—, flax, treatment of using, 1,513,316
—, flax straw, treatment of using, 1,417,889
—, flesh file made with, 1,203,918
—, floor covering made with, 1,245,984
—, flooring made with, 1,194,926
—, floor wax contg., 1,389,391
—, flotation agent prepared with, 1,417,263
—, flotation process using, 1,417,262; 1,417,263
—, flux contg., 1,404,001
—, flux in iron coating, 1,456,274
—, flux for scrap metal, 1,291,672
—, flux in solder mfr., 1,326,971
—, fly repelling composition contg., 1,270,630
—, foam, evaporation-preventing, made with, 1,443,538; 1,495,308
—, food product made with, 1,213,854
—, formaldehyde urea condensate made with, 1,460,606
—, formates made with, 1,204,933
—, formation of, 1,462,064
—, formic acid made with, 1,204,933
—, fossil flour, treatment of with, 1,503,133
—, freezing preventing composition contg., 1,436,828
—, fuel of peat and, 1,312,521
—, fuel, sulfur bearing, made with, 1,183,445
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—, *fuse, see Borax, anhydrous*
—, garnet, etching of using, 1,482,793
—, gasket composition contg., 1,455,809
—, gelatin substitute made with, 1,263,634; 1,263,635
—, germicide made with, 1,493,564
—, glass made with, 1,214,202; 1,292,147; 1,327,569; 1,362,917; 1,403,752; 1,467,030
—, glass, gold decorated, made with, 1,205,728; 1,438,799
—, —, milk, made with, 1,314,831
—, —, opaque, made with, 1,143,788; 1,314,831
—, —, ruby, made with, 1,271,652
—, —, strass, made with, 1,271,652
—, —, translucent, made with, 1,143,788; 1,166,922
—, —, vanadium, effected by, 1,292,148
—, —, wire sealed in, made with, 1,268,647
—, glass cleaning composition contg., 1,449,281
—, glass melting pot contg., 1,324,546
—, glaze, opaque, made with, 1,314,831
—, glucose made with, 1,139,620
—, glue made with, 1,285,474; 1,318,106; 1,479,472
—, glue, animal, substitute for, made with, 1,263,634; 1,263,635
—, —, vegetable, made with, 1,490,309
—, glue soluble with, 1,370,412
—, gold, ceramic ware decorated with, made with, 1,438,799
—, —, glass decorated with, made with, 1,205,728; 1,438,799
—, gold inlay made with, 1,209,906
—, granulated, mfr. of, apparatus for, 1,175,224
—, —, —, process for, 1,175,224
—, —, plate, photographic, colored, made with, 1,175,224
—, grease, removal of by, 1,452,093
—, —, package for made with, 1,311,595
—, —, artificial, substitute for, made with, 1,263,634; 1,263,635
—, hair remedy contg., 1,516,562
—, hair waving composition made with, 1,186,533
—, hemp, treatment of using, 1,417,889; 1,513,316
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—, hypochlorous acid prepared with, 1,446,873
—, hyposulfite, anhydrous, made with, 1,156,107
—, ice, imitation, made with, 1,181,275
—, infusorial earth, treatment of with, 1,503,133
—, ink, printing, made with, 1,142,365; 1,421,125
—, —, removal of by, 1,452,093
—, insect repelling composition contg., 1,270,630
—, insulation made with, 1,502,547
—, insulation, electric, made with, 1,266,088; 1,227,465; 1,245,975; 1,245,984
—, —, heat, made with, 1,161,289; 1,189,780; 1,230,297; 1,235,061; 1,288,834
—, insulator made with, 1,226,088
—, iron made using, 1,248,948

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—, —, bronze coated, made with, 1,125,158
—, —, cast, brazing of, flux for, contg., 1,275,412
—, —, case-hardening of using, 1,472,850; 1,472,851
—, —, copper coated, made with, 1,125,158
—, —, galvanized, article, filling for joints of, made with, 1,223,458
—, —, gold coated, made with, 1,125,158
—, —, sheet, coating for, made with, 1,221,561
—, —, silver coated, made with, 1,125,158
—, —, welding of, using, 1,513,824
—, —, —, composition for, contg., 1,209,841
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—, iron alloy, case hardening of using, 1,472,850; 1,472,851
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—, iron coated with lead using, 1,276,978
—, iron plates, pickled, treated with, 1,360,843
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—, iron-refining flux contg., 1,453,734
—, iron treated with, 1,342,484
—, iron tube, copper coated, made with, 1,125,159
—, ivory substitute made with, 1,245,975
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—, kieselguhr, treatment of with, 1,503,133
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—, lead coating for iron using, 1,276,978
—, lead coating for metal using, 1,276,978
—, lead from ore with, 1,306,480
—, leather made with, 1,268,876
—, leather, artificial, made with, 1,245,977
—, leather board made with, 1,152,294; 1,234,315
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—, leather substitute made with, 1,174,967
—, leather treated with compound contg., 1,265,648
—, lightning arrester electrolyte for contg., 1,270,784
—, lightning arrester, electrolytic, made with, 1,499,414
—, linoleum substitute made with, 1,245,978; 1,245,984
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—, manganese, alloy contg., case-hardening of using, 1,472,850; 1,472,851
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—, —, alkali earth borate for, 1,259,717; 1,259,718; 1,259,719
—, —, alkali earth borosilicate for, 1,259,717; 1,259,718; 1,259,719
—, —, borax ore for, 1,259,717; 1,259,718; 1,259,719
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—, —, boronatrocalcite for, 1,444,989
—, —, calcium borate for, 1,259,717; 1,259,718; 1,259,719; 1,492,920
—, —, calcium borosilicate for, 1,259,717; 1,259,718; 1,259,719
—, —, carbon dioxide for, 1,215,543; 1,215,545; 1,316,755; 1,492,920; 1,492,921
—, —, colemanite for, 1,259,717; 1,259,718; 1,259,719; 1,492,920
—, —, danburite for, 1,259,717; 1,259,718; 1,259,719
—, —, howlite for, 1,259,717; 1,259,718; 1,259,719
—, —, magnesium borate for, 1,492,920
—, —, nitric acid for, 1,259,717; 1,259,718; 1,259,719
—, —, Owens Lake brine for, 1,492,920; 1,492,921
—, —, pandermite for, 1,259,717; 1,259,718; 1,259,719
—, —, process for, 1,215,543; 1,215,545; 1,295,958; 1,450,975; 1,487,046; 1,492,920; 1,492,921
—, —, Searles Lake brine for, 1,215,543; 1,215,545; 1,487,046; 1,492,920; 1,492,921
—, —, sodium bicarbonate for, 1,492,920; 1,492,921
—, —, sodium carbonate for, 1,492,920; 1,492,921
—, —, sodium metaborate for, 1,215,543; 1,215,545; 1,316,755; 1,492,921
—, —, sodium nitrate for, 1,259,717; 1,259,718; 1,259,719
—, —, trona for, 1,492,920; 1,492,921
—, marble substitute made with, 1,245,975
—, metal, brazing of, flux for, contg., 1,275,412
—, —, welding of using, 1,513,824
—, metal article, filling for jointing of, made with, 1,223,458
—, metal coated with, lead using, 1,276,978
—, metal polish contg., 1,457,857
—, methyl borate made with, 1,308,577
—, mining of, apparatus for, 1,217,065
—, —, process for, 1,217,065
—, molds for rubber goods coated with, 1,431,471
—, molded article made with, 1,141,591; 1,227,465
—, molybdenum, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, —, coating of using, 1,236,383; 1,263,656
—, —, metallic coating for, applied with, 1,261,110
—, —, soldering of with, 1,263,656
—, molybdenum alloy, coating of using, 1,236,383; 1,263,656
—, —, soldering of with, 1,263,656
—, —, tungsten in, metallic coating for applied with, 1,261,110
—, mortar made with, 1,233,239
—, mortar, artificial, cutting of, using, 1,494,003
—, —, waterproofing of using, 1,519,285
—, nickel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, nickel alloy, case-hardening of using, 1,472,850; 1,472,851
—, —, iron in, platinum coated, made with, 1,189,194
—, nickel borate prepared with, 1,338,709

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—, oil, emulsifier for contg., 1,318,106
—, —, removal of by, 1,452,093
—, —, package for, made with, 1,311,595
—, oleomargarin, cakes of, made with, 1,164,397
—, ore treated with, 1,248,948
—, oxygen removed from alloys by, 1,363,382
—, package, oil-proof, made with, 1,311,595
—, packing, lubricating, made with, 1,145,877
—, paint made with, 1,168,730; 1,242,480; 1,342,497; 1,369,857; 1,415,380; 1,450,688; 1,487,961; 1,502,547
—, paint, cement, made with, 1,510,795
—, —, fireproof, made with, 1,248,092
—, —, removal of by, 1,452,093
—, —, silver, made with, 1,438,799
—, paint composition contg., 1,342,497
—, paint remover made with, 1,177,938
—, paper made with, 1,242,480
—, paper, coated, made with, 1,147,996
—, —, fireproof sizing for, made with, 1,248,092
—, —, glazed, made with, 1,209,223
—, —, oil-proof, made with, 1,311,595
—, —, Yoshino, treatment of using, 1,243,780
—, paper de-inked with, 1,421,195
—, paper preserved by, 1,448,276
—, paper sized by, process for, 1,452,389
—, paper stock reclaiming composition contg., 1,351,092
—, paper waterproofed by, process for, 1,452,389
—, paving composition contg., 1,379,052
—, peanut, treatment of with, 1,213,854
—, peat mixed with, 1,312,521
—, perborate made with, 1,222,640
—, petroleum, package for, made with, 1,311,595
—, petroleum hard oil, package for, made with, 1,311,595
—, phenol aldehyde condensate made with, 1,187,232
—, phenol aldehyde condensate substitute made with, 1,245,975
—, phormium tenax, treatment of using, 1,417,889
—, photography, colored multicolor screen for, made with, 1,486,635
—, pigment made with, 1,242,480
—, plaster, artificial, cutting of, using, 1,494,003
—, plaster of Paris hardened by, 1,442,406
—, plaster of Paris molds coated with shellac dissolved with, 1,406,651
—, plaster of Paris setting retarded by, 1,442,406
—, plastic made with, 1,194,926; 1,245,984
—, platinum, iron alloy, nickel in, coated with, made using, 1,189,194
—, —, nickel alloy, iron in, coated with, made using, 1,189,194
—, —, nickel steel coated with, made using, 1,189,194
—, platinum inlay made with, 1,209,906
—, platinum substitute made with, 1,268,647
—, polish contg., 1,456,151
—, Pontianak, coating of for, 1,251,862
—, Pontianak purified with, 1,438,019
—, potassium carbonate made with, 1,215,518
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—, potassium chloride, separation of from, 1,311,481; 1,316,755; 1,496,152; 1,496,257
—, —, —, ammonium hydroxide for, 1,505,078
—, —, —, process for, 1,215,574; 1,215,575; 1,215,576; 1,252,784; 1,288,591; 1,288,592; 1,288,593; 1,474,433; 1,505,078
—, —, —, sodium bicarbonate for, 1,474,433
—, potassium compound made with, 1,215,518
—, potassium salts from silicates with, 1,399,216; 1,399,217
—, potassium silicate made with, 1,357,183
—, precipitating from solutions, 1,349,446
—, preservative made with, 1,263,634; 1,263,635
—, preservative, hide, contg., 1,304,030
—, printers roller made with, 1,514,249
—, printing ink made with, 1,421,125
—, *production of, see Borax, mfr. of*
—, proteid product made with, 1,245,975
—, pyorrhea remedy contg., 1,466,578
—, quartz, etching of using, 1,482,793
—, ramie, treatment of using, 1,513,316
—, record, phonograph, made with, 1,413,984
—, recovery of, 1,424,447
—, —, brine for, 1,328,614; 1,415,203; 1,415,204; 1,415,205; 1,415,206
—, —, gases for, 1,295,958
—, —, Searles Lake brine for, 1,343,400; 1,343,401; 1,370,278
—, —, sodium carbonate for, 1,295,958
—, rectifier, electrolytic, made with, 1,141,402; 1,499,414; 1,499,907
—, —, mercury, lead-in conductor for, made with, 1,268,647
—, reduction of, apparatus for, 1,512,271
—, —, carbon for, 1,512,271
—, —, coke for, 1,512,271
—, —, hydrogen for, 1,512,271
—, —, pitch for, 1,512,271
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—, —, rutile for, 1,512,271
—, —, silica for, 1,512,271
—, —, titanium dioxide for, 1,512,271
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—, resin size made with, 1,308.136; 1,318,106
—, resistors coated with, 1,365,331
—, roach repelling composition contg., 1,270,630
—, road paving made with, 1,198,107
—, rodent repelling composition contg., 1,270,630
—, rosin, coating of for, 1,251,862
—, rubber, vulcanization of, using, 1,203,241
—, rubber article, inflated, made using, 1,480,376
—, rubber latex, *Hevea Brasiliensis*, coagulation of using, 1,145,351; 1,145,352
—, —, Para, coagulation of using, 1,145,351; 1,145,352
—, rubber molds coating composition contg., 1,462,563
—, rubber substitute made with, 1,174,967; 1,245,975; 1,245,979; 1,245,984; 1,251,862
—, rust-proofing composition contg., 1,185,361
—, rust-removing composition contg., 1,368,714
—, salicylic aldehyde made with, 1,427,400
—, salts contg., boric acid made with, 1,308,577

Borax, salts contg., mfr. of, Searles lake brine for, 1,468,389; 1,468,390
—, —, methyl borate made with, 1,308,577
—, sand, etching of using, 1,482,793
—, Searles lake brine contg., 1,380,383; 1,487,046; 1,496,152
—, Searles lake brine, separation from of, 1,476,873; 1,476,890
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—, shellac dissolved with, 1,406,651; 1,413,984
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—, shingle, artificial, made with, 1,373,217
—, —, fireproofing of, using, 1,346,287
—, shingle coated with composition made with, 1,373,217
—, shoe, box toe for, made with, 1,124,694
—, shoe dressing contg., 1,461,696
—, shoe filler made with, 1,202,454; 1,227,696
—, shoe polish made with, 1,231,997
—, shortening made with, 1,491,380
—, silica, etching of using, 1,482,793
—, silica brick made with, 1,420,284
—, silicon, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, silicon carbides, etching of using, 1,482,793
—, silk treated with, 1,397,875
—, silver, sterling, made with, 1,191,890
—, silver alloy made with, 1,133,019
—, silver inlay made with, 1,209,906
—, silver paint contg., 1,438,799
—, sisal, treatment of using, 1,417,889
—, size made with, 1,263,634; 1,263,635; 1,318,106; 1,373,412
—, sludge sulfonic acid tar treated with, 1,271,387
—, soap made with, 1,164,397; 1,408,650; 1,488,035; 1,502,547
—, soap, cakes of, made with, 1,164,397
—, soap bark dust prevention during working with using, 1,128,472
—, soap pellets contg., 1,436,928
—, soap sheets contg., 1,436,929
—, sodium aluminate, separation from of, process for, 1,474,433
—, —, —, sodium bicarbonate for, 1,474,433
—, sodium bicarbonate, separation from of, process for, 1,215,574; 1,215,575
—, sodium carbide (Na_2C_2), made with, 1,473,510
—, sodium carbonate, separation from of, process for, 1,215,574; 1,215,575; 1,474,433
—, —, —, sodium bicarbonate for, 1,474,433
—, sodium chloride, separation of from, ammonium hydroxide for, 1,505,078
—, —, —, process for, 1,474,433; 1,505,078
—, —, —, sodium bicarbonate for, 1,474,433
—, sodium hypochlorite from, 1,403,993
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—, sodium metaborate made with, 1,215,543; 1,215,545; 1,316,755; 1,349,446
—, sodium metal made with, 1,493,126
—, sodium perborate made with, 1,169,703; 1,222,640; 1,235,904; 1,235,905; 1,253,060; 1,253,061; 1,268,369; 1,395,685; 1,408,364
—, sodium perborate made by electrolysis of, 1,375,596
—, sodium perborate compound made with, 1,200,739
—, sodium sesquicarbonate from natural water contg., 1,319,128
—, sodium silicate made with, 1,357,183
—, sodium silicate, separation from of, process for, 1,474,433
—, —, —, sodium bicarbonate for, 1,474,433
—, sodium sulfate, separation from of, process for, 1,474,433
—, —, —, sodium bicarbonate for, 1,474,433
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—, soldering compounds made with, 1,245,862
—, soldering flux contg., 1,160,731; 1,280,905; 1,283,909; 1,421,491; 1,428,088
—, solder wire contg., 1,421,491
—, solubility of in boric acid solutions, 1,350,090
—, solutions contg., sodium borates obtained from, 1,349,446
—, starch, fireproof, made with, 1,248,092
—, —, laundry, made with, 1,149,216; 1,276,722
—, —, modified, substitute for, made with, 1,263,634; 1,263,635
—, —, soluble, substitute for, made with, 1,263,634; 1,263,635
—, starch paste contg., airplane fabric sized with, 1,427,942
—, steel made with, 1,322,496
—, steel alloy, welding of, use of, 1,315,611
—, —, bearing surface for, made with, 1,217,633
—, —, brass coated, made with, 1,125,158
—, —, bronze coated, made with, 1,125,158
—, —, case-hardening of using, 1,472,850; 1,472,851
—, —, copper coated, made with, 1,125,158
—, —, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, gold coated, made with, 1,125,158
—, —, sheet, coating for, made with, 1,221,561
—, —, silver coated, made with, 1,125,158
—, —, soft, welding of, use of, 1,315,611
—, —, tool welding of, use of, 1,315,611
—, —, welding of using, 1,315,611; 1,513,824
—, —, welding of, composition for contg., 1,209,841
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—, steel tempered using, 1,344,658
—, steel treated using, 1,342,484
—, stencil made with, 1,243,780; 1,304,120
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—, straw hat, size for, made with, 1,263,634; 1,263,635
—, stucco, artificial, cutting of, using, 1,494,003
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—, steel treating composition contg., 1,372,364
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—, —, copper coated, made with, 1,125,159
—, substitute for, sodium decaborate as, 1,455,791
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—, textile preserved by, 1,448,276
—, thermocouple element made with, 1,490,438
—, thermostatic metal made with, 1,250,612; 1,250,862
—, tile made with, 1,245,984
—, tile, waterproofing of using, 1,471,792
—, tin made using, 1,248,948
—, tin article, filling for joints of, made with, 1,223,458
—, tire puncture-healing composition made with, 1,495,383
—, titanium glass affected by, 1,292,147
—, tooth paste contg., 1,377,780
—, trona, separation from of, 1,492,920
—, tungsten, alloy contg., case-hardening of using, 1,472,850; 1,472,851
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—, —, metallic coating for, applied with, 1,261,110
—, —, soldering of with, 1,263,656
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—, —, soldering of with, 1,263,656
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—, Turkish bird-lime thinned using, 1,356,267
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—, varnish made with, 1,280,861
—, varnish, fireproof, made with, 1,248,092
—, varnish remover made with, 1,177,938
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—, —, oil-proof, made with, 1,311,595
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—, lacquer contg. cellulose esters and, 1,358,914
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—, —, wire, coated with, made with, 1,509,101
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—, magnesium aluminate made with, 1,394,442
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—, —, package for, made with, 1,311,595
—, —, refining of using, 1,147,392
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—, paper, oil-proof, made with, 1,311,595
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—, pyrophosphoboric acid made with, 1,323,878
—, quartz, etching of using, 1,482,793
—, quinizarin made with, 1,504,165
—, rare earth fluoride made with, 1,314,571
—, record, phonograph, made with, 1,513,120
—, recovery of, brines, natural for, 1,343,508
—, —, nitric acid for, 1,295,958
—, —, sulfuric acid for, 1,295,958
—, rectifier, electrolytic, made with, 1,141,402
—, refractory made with, 1,394,442; 1,420,284
—, road paving made with, 1,266,618
—, rubber latex, addition to of, 1,270,887
—, rubber preserving agent, 1,434,764
—, salicylic aldehyde made with, 1,427,400
—, saltpeter, Chile impurity, 1,308,576
—, salts of, brick, silica made with, 1,477,810
—, —, catalyst, cristobalite made with, 1,477,810
—, —, —, tridymite made with, 1,477,810
—, —, refractory made with, 1,477,810
—, —, silica brick made with, 1,420,284
—, —, *see also Borates*
—, sand, etching of using, 1,482,793
—, sausage stuffing, sterilization of, using, 1,250,079
—, Searles lake brine, removal of from, carbon dioxide for, 1,232,156
—, —, —, chlorine for, 1,232,156
—, —, —, hydrochloric acid for, 1,232,156
—, —, —, process for, 1,232,156
—, secretions, sterilization of using, 1,250,079
—, seeds, sterilization of, using, 1,250,079
—, separating from potassium salts, alcohols for, 1,343,508
—, serum, sterilization of, using, 1,250,079
—, shellac substitute made with, 1,482,929
—, shoe polish contg., 1,432,707
—, shortening made with, 1,491,380
—, silica, etching of using, 1,482,793
—, silica brick made with, 1,420,284
Boric acid, silicon carbide, etching of using, 1,482,793
—, silk worm cocoons, killing of, using, 1,250,079
—, silver, electrodeposition of, using, 1,515,042
—, snuff made with, 1,268,135
—, sodium bicarbonate, removal of from, carbon dioxide for, 1,232,156
—, —, —, chlorine for, 1,232,156
—, —, —, hydrochloric acid for, 1,232,156
—, —, —, process for, 1,232,156
—, sodium carbonate, removal of from, carbon dioxide for, 1,232,156
—, —, —, chlorine for, 1,232,156
—, —, —, hydrochloric acid for, 1,232,156
—, —, —, process for, 1,232,156
—, sodium chloride, removal of from, carbon dioxide for, 1,232,156
—, —, —, chlorine for, 1,232,156
—, —, —, hydrochloric acid for, 1,232,156
—, —, —, process for, 1,232,156
—, sodium metaborate made with, 1,215,543; 1,215,545
—, sodium perborate made with, 1,169,703
—, sodium sulfate, removal of from, carbon dioxide for, 1,232,156
—, —, —, chlorine for, 1,232,156
—, —, —, hydrochloric acid for, 1,232,156
—, —, —, process for, 1,232,156
—, solder made with, 1,326,971
—, solder fluxed with, 1,429,703
—, soldering compound contg., 1,271,125; 1,472,781
—, soldering flux contg., 1,160,731
—, solubility of in borax solutions, 1,350,090
—, solvent for, acetone as, 1,358,914; 1,469,839
—, —, alcohol as, 1,329,148; 1,429,703
—, —, ether as, 1,329,148
—, —, methyl ethyl ketone as, 1,358,914
—, spinel, artificial, made with, 1,394,442
—, stamp pad made with, 1,268,135
—, starch, fermentation of, using, 1,134,281
—, steel, hardening of using, 1,190,937
—, —, welding of using, 1,513,824
—, steel alloy made with, 1,402,088
—, steel tempered using, 1,344,658
—, steel tempering compound contg., 1,344,658
—, sterilization using, 1,250,079
—, substitute for, sodium decaborate as, 1,455,791
—, sulfur dioxide made with, 1,356,029
—, sulfur dioxide liberated from metabisulfites by, 1,356,029; 1,356,030
—, tanning using, 1,191,527
—, tanning compound made with, 1,323,878
—, thorium, electrodeposition of, using, 1,487,174
—, thorium alloy, electrodeposition of, using, 1,487,174
—, tin, electrodeposition of using, 1,124,315
—, tobacco made with, 1,268,135
—, tungsten made with, 1,202,534; 1,202,535
—, tungsten filament made with, 1,508,241
—, tungsten oxychloride dissolved in fused, 1,202,534; 1,202,535
—, tungsten trioxide dissolved in, 1,293,117
—, tungsten trioxide dissolved in fused, 1,202,534; 1,202,535
—, vaccines, sterilization of, using, 1,250,079

Boric acid, varnish made with, 1,369,858; 1,482,929
—, vegetable, sterilization of using, 1,250,079
—, vegetable matter, sterilization of, using, 1,250,079
—, welding compound contg., 1,271,125; 1,396,495; 1,472,781
—, welding electrode covering contg., 1,441,685
—, welding flux made with, 1,131,521
—, wire, lead coated, made with, 1,509,101
—, wood, fireproofing of, using, 1,216,729
—, —, imitation, made with, 1,153,970
—, —, oil, proof, made with, 1,311,595
—, wort, fermentation of, using, 1,134,281
—, zinc, electrodeposition of, using, 1,515,042
—, zinc orthosilicate prepared with, 1,360,585
Boric acid anhydride, see also Boron trioxide
Boric anhydride, boron derivative of, pyrophosphoric acid prepared from, 1,336,974
—, electrical resistance element contg., 1,349,053
—, *see also Boron oxide*
Boric cobalt slag, nickel arsenide speiss. separation from of, 1,166,067
Boric oxide, see Boron trioxide
Borneo camphor, see Borneol
Borneo copal, see Copal, Borneo
Borneo crude oil, see Petroleum, Borneo crude
Borneo jelutong, see Pontianak
Borneo oil, see Petroleum, Borneo
Borneo petroleum, see Petroleum, Borneo
Borneol, camphor made with, 1,134,746
—, camphor, synthetic, made with, 1,326,248; 1,426,036; 1,482,899
—, cellulose acetate plasticizer, 1,199,800; 1,388,472
—, dipentane made with, 1,463,122
—, film, photographic, made with, 1,199,800; 1,388,472
—, hydrogenation using, 1,134,746
—, insect repellent made with, 1,496,279
—, mfr. of acetic acid for, 1,415,340
—, —, acid, organic, for, 1,478,690
—, —, apparatus for, 1,478,690
—, —, chlor-benzoic acid for, 1,415,340
—, —, dibornyl tetrachlor-phthalate for, 1,415,340
—, —, formic acid for, 1,415,340
—, —, hydrogen chloride for, 1,478,690
—, —, metal salt for, 1,478,690
—, —, 3-nitro-phthalic acid for, 1,415,340
—, —, oxalic acid for, 1,415,340; 1,478,690
—, —, phthalic acid for, 1,415,340
—, —, pinene for, 1,415,340; 1,429,342
—, —, pinene oxalate for, 1,478,690
—, —, process for, 1,415,340; 1,426,036; 1,429,342; 1,478,690
—, —, sodium hydroxide for, 1,415,340
—, —, terpene for, 1,478,690
—, —, tetrabrom-isophthalic acid for, 1,429,342
—, —, tetrabrom-phthalic acid for, 1,429,342
—, —, tetrabrom-terephthalic acid for, 1,429,342
—, —, tetrachlor-isophthalic acid for, 1,429,342
—, —, tetrachlor-phthalic acid for, 1,415,340; 1,429,342
—, —, tetrachlor-terephthalic acid for, 1,429,342
—, —, tetrafluor-isophthalic acid for, 1,429,342
—, —, tetrafluor-phthalic acid for, 1,429,342
Borneol, mfr. of, tetrafluor-terephthalic acid for, 1,429,342
—, —, tetrahalogen-phthalic acid for, 1,429,342
—, —, tetraiodo-isophthalic acid for, 1,429,342
—, —, tetraiodo-phthalic acid for, 1,429,342
—, —, tetraiodo-terephthalic acid for, 1,429,342
—, —, turpentine for, 1,478,690
—, naphthalene insect tablet made with, 1,496,279
—, pine oil contg., 1,463,122
—, plastic made with, 1,199,800; 1,388,472
—, stearic acid made with, 1,134,746
—, tristearin made with, 1,134,746
—, *see also Isoborneol*
iso-Borneol, see Isoborneol
Borneol acetate, preparation of, 1,426,036
—, cellulose acetate plasticizer, 1,388,472
Bornesite, see Monomethyl-inositol
Bornite, copper made with, 1,268,323
—, copper, precipitant for made with, 1,178,191
—, copper chloride made with, 1,268,323
—, smelting of, apparatus for, 1,169,444
—, —, charcoal for, 1,169,444
—, —, coal tar for, 1,169,444
—, —, hydrocarbon for, 1,169,444
—, —, paraffin oil for, 1,169,444
—, —, pitch for, 1,169,444
—, —, process for, 1,169,444
—, sulfur made with, 1,169,444
—, zinc sulfide, separation from of, alkali carbonate for, 1,469,042
—, —, —, alkali earth carbonate for, 1,469,042
—, —, —, alkali earth hyposulfite for, 1,469,042
—, —, —, alkali earth salt for, 1,469,042
—, —, —, alkali earth sulfate for, 1,469,042
—, —, —, alkali earth sulfide for, 1,469,042
—, —, —, alkali earth sulfite for, 1,469,042
—, —, —, alkali salt for, 1,469,042
—, —, —, alkali sulfate for, 1,469,042
—, —, —, alkali sulfide for, 1,469,042
—, —, —, alkali sulfite for, 1,469,042
—, —, —, coal tar creosote for, 1,469,042
—, —, —, coal tar oil for, 1,469,042
—, —, —, copper sulfate for, 1,469,042
—, —, —, cresylic acid for, 1,469,042
—, —, —, flotation process for, 1,469,042
—, —, —, pine oil for, 1,469,042
—, —, —, process for, 1,469,042
—, —, —, sodium carbonate for, 1,469,042
—, —, —, sodium hydroxide for, 1,469,042
—, —, —, sodium monosulfide for, 1,469,042
—, —, —, sodium polysulfide for, 1,469,042
—, —, —, sodium sulfide for, 1,469,042
—, —, —, sulfuric acid for, 1,469,042
—, *see also Copper sulfide ore; Iron sulfide ore; Sulfide ore*
Bornyl acetate, cellulose acetate plasticizer, 1,388,472
—, cellulose acetate solvent contg., 1,199,800; 1,388,472
—, film, photographic, made with, 1,199,800; 1,388,472
—, plastic made with, 1,199,800; 1,388,472
—, preparation of, 1,426,036
—, *see also Isobornyl acetate*

Bornyl alcohol, see Borneol
Bornyl chloride, preparation of, 1,426,036
Bornylene, bornyl acetate made with, 1,426,036
Bornyl ethyl ether, paint remover made with, 1,130,499
—, varnish remover made with, 1,130,499
Bornyl tetrachlorphthalate, borneol from, 1,415,340
(di)Bornyl tetrachlorphthalate, preparation of, 1,415,340
Bornyval, see Bornyl-iso-valerianate
Borocalcite, see Bechilite
—, see also Calcium dimetaborate
Borocarbon, cut-out, electric, made with, 1,198,962
—, mfr. of, boron for, 1,198,962
—, —, pitch for, 1,198,962
—, —, process for, 1,198,962
Borofluorides, glass mfr. with, 1,419,032
Borogen, see Ethyl borate
Borolon, see Aluminum oxide
—, see also Alumina
Boromethyl, see Trimethylborine
Boron, abrasive made with, 1,343,976; 1,343,977
—, alloy contg., 1,126,629; 1,169,536; 1,203,180; 1,203,555; 1,489,116; 1,490,696; 1,493,191; 1,509,624
—, —, *see also Ferro-boron*
—, alloy, copper-tin-zinc contg., 1,446,332
—, alloy of antimony, arsenic and, 1,338,279
—, alloy contg. calcium, copper and, 1,359,813
—, alloy contg. copper, calcium and, 1,359,813
—, alloys de-oxidized with, 1,350,166
—, aluminum and, producing, 1,464,625
—, aluminum-silicon alloy contg., 1,396,276
—, ammonia made with, 1,206,155
—, ammonia, catalyst for mfr. of, made with, 1,141,948; 1,159,365
—, boro-carbon made with, 1,198,962
—, boron, copper alloy contg., made with, 1,169,536
—, brass, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating of with, process for, 1,224,339
—, carbon filament, nickel, joining of using, 1,131,189
—, —, nickel alloy, joining of using, 1,131,189
—, —, platinum, joining of using, 1,131,189
—, case hardening using, 1,178,551
—, casting of, apparatus for, 1,477,508
—, —, carbon, mold, for, 1,477,508
—, —, process for, 1,477,508
—, catalyst, aluminum nitride made with, 1,188,769; 1,188,770
—, —, iron as, made with, 1,489,497
—, catalyst poison, 1,489,497; 1,510,598
—, —, for ammonia mfr. 1,148,570; 1,152,930
—, cobalt alloy contg., 1,203,180; 1,203,555
—, copper, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating of with, process for, 1,224,339
—, —, tungsten having terminal of, made with, 1,226,470
—, copper alloy, boron in, made with, 1,169,536
—, copper alloy contg., mfr. of, boric acid for, 1,136,909; 1,169,536
—, —, —, boron for, 1,169,536
Boron, copper alloy contg., mfr. of, boron carbide for, 1,169,536
—, —, —, boron fluoride for, 1,136,909; 1,169,536
—, —, —, boron suboxide for, 1,169,536
—, —, —, boron trioxide for, 1,169,536
—, —, —, calcium fluoride for, 1,136,909; 1,169,536
—, —, —, copper for, 1,136,909; 1,169,536
—, —, —, graphite crucible for, 1,136,909; 1,169,536
—, —, —, magnesite crucible for, 1,136,909; 1,169,536
—, —, process for, 1,126,629; 1,136,909; 1,169,536
—, copper tungsten, composite body of and, made with, 1,162,339; 1,162,341
—, cut-out, electric, made with, 1,198,962
—, cyanides made with, 1,206,155
—, diamond substitute made with, 1,343,976; 1,343,977
—, expansion measurements, alloy as standard for, contg., 1,489,116
—, fertilizer contg., 1,409,126
—, flux, ceramic, contg., 1,123,985
—, formates made with, 1,206,155
—, halogen compounds of, mfr. of, 1,350,932
—, hard material made with, 1,343,976; 1,343,977
—, heater, chemical, made with, 1,506,322; 1,506,323
—, hydrogen made with, 1,506,323
—, insulation, electric, made with, 1,226,088
—, insulator made with, 1,225,147; 1,226,088
—, iron, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, catalyst, made with, 1,489,497
—, —, coating of with, process for, 1,224,339
—, —, melting point of, lowered with, 1,131,189
—, iron alloy contg., 1,493,191; 1,509,624; 1,519,388
—, —, mfr. of, process for, 1,126,629
—, iron cementation on surface with, 1,472,850
—, nickel, carbon filament, joining of to using, 1,131,189
—, —, melting point of, lowered with, 1,131,189
—, —, tungsten filament, joining of using, 1,131,189
—, nickel alloy contg., 1,203,180; 1,203,555
—, nickel alloy, carbon filament, joining of using, 1,131,189
—, —, tungsten filament, joining of using, 1,131,189
—, nitrogen fixation process using, 1,206,155
—, ores of, borax from, 1,295,958
—, —, boric acid from, 1,295,958
—, phosphoric acid (pyro) derivative of, 1,336,974
—, platinum, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, carbon filament, joining of using, 1,131,189
—, —, coating of with, process for, 1,224,339
—, —, melting point of, lowered with, 1,131,189
—, —, tungsten filament, joining of using, 1,131,189
—, production of, borax for, 1,493,126
—, —, boron chloride for, 1,131,189
—, —, boron trioxide for, 1,131,189
—, —, carbon for, 1,493,126

Boron, production of, charcoal for, 1,493,126
—, —, coke for, 1,493,126
—, —, hydrogen for, 1,131,189
—, —, magnesium for, 1,131,189
—, —, process for, 1,131,189; 1,464,625; 1,493,126
—, pure, production of, boron chloride for, 1,306,568
—, —, —, boron halide for, 1,306,568
—, —, —, boron nitride for, 1,306,568
—, —, —, calcium for, 1,306,568
—, —, —, carbon filament for, 1,306,568
—, —, —, potassium for, 1,306,568
—, —, —, process for, 1,306,568
—, —, —, sodium for 1,306,568
—, —, —, tantalum filament for, 1,306,568
—, —, —, tungsten for, 1,306,568
—, —, —, tungsten filament for, 1,306,568
—, pyrometer made with, 1,489,116
—, resistors coated with compounds of, 1,365,331
—, selenium oxychloride, action of on, 1,473,350
—, selenium oxychloride as non-solvent for, 1,385,081
—, steel, chrome-nickel made with, 1,519,388
—, —, molybdenum made with, 1,519,388
—, —, nickel made with, 1,519,388
—, —, tungsten made with, 1,519,388
—, steel alloy contg., 1,519,388
—, steel cementation on surface with, 1,472,850
—, tungsten, copper terminal for, made with, 1,226,470
—, —, ductile made using, 1,179,009
—, tungsten alloy, ductile, made using, 1,179,009
—, tungsten copper, composite body of and, made using, 1,162,339; 1,162,341
—, tungsten filament, nickel, joining of using, 1,131,189
—, —, nickel alloy, joining of using, 1,131,189
—, —, platinum, joining of using, 1,131,189
—, water gas made with, 1,506,323
—, wire contg., drawing, process for, 1,345,441
—, zinc alloy contg., 1,490,696
Boron alloy, heater, chemical, made with, 1,506,322
Boronatrocalcite, borax from, 1,444,989
—, decomposing, sulfur dioxide for, 1,462,064
—, sodium decaborate from, 1,444,989
—, sodium decarborate from, 1,462,064
—, *see also Ulexite*
Boron carbide, alloy made using, 1,520,033
—, boron, copper alloy contg., made with, 1,169,536
—, ceramic abrasive wheels contg., 1,144,162
—, copper, tungsten having terminal of, made with, 1,226,470
—, copper alloy, boron in, made with, 1,169,536
—, electrode, arc lamp, made with, 1,164,728
—, formation of, 1,425,603
—, mfr. of, ammonia for, 1,501,419
—, —, boron nitride for, 1,501,419
—, —, boron trioxide for, 1,501,419
—, —, carbon for, 1,501,419
—, —, carbon bisulfide for, 1,501,419
—, —, hydrogen for, 1,501,419
—, —, illuminating gas for, 1,501,419
—, —, nitrogen for, 1,501,419
—, —, process for, 1,501,419
—, resistance, electric, made with, 1,246,165
Boron carbide, tungsten, copper terminal for, made with, 1,226,470
—, (B_2C_3), boron carbonitride ($B_2C_3N_6$), made with, 1,129,508
—, —, mfr. of, apparatus for, 1,129,508
—, —, —, boron oxide (B_2O), for, 1,129,508
—, —, —, carbon for, 1,129,508
—, —, —, nitrogen for, 1,129,508
—, —, —, process for, 1,129,508
—, —, —, producer gas for, 1,129,508
—, (B_4C_3), boron carbide (B_6C), from, 1,473,510
—, —, mfr. of, apparatus for, 1,129,508
—, —, —, borax for, 1,473,510
—, —, —, boron oxide (B_2O), for, 1,129,508
—, —, —, carbon for, 1,129,508
—, —, —, charcoal for, 1,473,510
—, —, —, coal, anthracite, for, 1,473,510
—, —, —, coke for, 1,473,510
—, —, —, nitrogen for, 1,129,508
—, —, —, process for, 1,129,508; 1,473,510
—, —, —, producer gas for, 1,129,508
—, (B_6C), mfr. of, borax for, 1,473,510
—, —, —, boron carbide (B_4C_3), for, 1,473,510
—, —, —, charcoal for, 1,473,510
—, —, —, coal, anthracite, for, 1,473,510
—, —, —, coke for, 1,473,510
—, —, —, process for, 1,473,510
Boron calcium fluoride, catalyst, dehydrogenation, made with, 1,216,933
—, —, hydrogenation, made with, 1,216,933
Boron carbonitride ($B_2C_3N_6$), ammonium carbonate made with, 1,129,508
—, —, boric acid made with, 1,129,508
—, —, mfr. of, apparatus for, 1,129,508
—, —, —, boron carbide (B_2C_3), for, 1,129,508
—, —, —, boron oxide (B_2O), for, 1,129,508
—, —, —, carbon for, 1,129,508
—, —, —, nitrogen for, 1,129,508
—, —, —, process for, 1,129,508
—, —, —, producer gas for, 1,129,508
Boron cementation, see Iron, case-hardening of
—, *see also Steel, case-hardening of*
Boron chloride, aluminum chloride made with, 1,321,281
—, boron made with, 1,131,189
—, boron, pure, from, process for, 1,306,568
—, chromium alloy contg., case-hardening of using, 1,472,851
—, iron, case-hardening of using, 1,472,851
—, iron alloy, case-hardening of using, 1,472,851
—, manganese, alloy contg., case-hardening of using, 1,472,851
—, molybdenum, alloy contg., case-hardening of using, 1,472,851
—, nickel, alloy contg., case-hardening of using, 1,472,851
—, reduction of, calcium for, 1,306,568
—, —, potassium for, 1,306,568
—, —, sodium for, 1,306,568
—, silicon, alloy contg., case-hardening of using, 1,472,851
—, steel, case-hardening of using, 1,472,851
—, steel alloy, case-hardening of using, 1,472,851
—, tungsten, alloy contg., case-hardening of using, 1,472,851

Boron(ic) chloride, cut-out, electric, made with, 1,198,962
Boron compound, adhesive made with, 1,263,634; 1,263,635
—, binder made with, 1,263,634; 1,263,635
—, boron nitride made with, 1,135,232
—, British gum, substitute for, made with, 1,263,634; 1,263,635
—, catalyst, aluminum nitride made with, 1,188,769; 1,188,770
—, —, ethylidene diacetate made with, 1,425,130
—, —, iron as, made with, 1,489,497
—, —, vinyl acetate made with, 1,425,130
—, —, vinyl ester made with, 1,425,130
—, catalyst poison, 1,489,497; 1,510,598
—, —, for ammonia mfr., 1,148,570; 1,152,930
—, chromium, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, dextrin, substitute for, made with, 1,263,634; 1,263,635
—, enamel contg., 1,496,505
—, enamel, iron, made with, 1,256,456
—, fabric, size for, made with, 1,263,634; 1,263,635
—, fertilizer contg., 1,409,126
—, gelatin, substitute for, made with, 1,263,634; 1,263,635
—, glue, animal, substitute for, made with, 1,263,634; 1,263,635
—, —, vegetable, made with, 1,490,309
—, gum, artificial, substitute for, made with, 1,263,634; 1,263,635
—, insulation, electric, made with, 1,226,088
—, insulator made with, 1,225,147; 1,226,088
—, insulator, electric, made with, 1,127,042; 1,127,044; 1,156,163
—, iron, case-hardening of using, 1,472,850; 1,472,851
—, —, catalyst, made with, 1,489,497
—, iron alloy, case-hardening of using, 1,472,850; 1,472,851
—, lamp, incandescent, filament for made with, 1,154,701
—, nickel, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, manganese, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, molybdenum, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, preservative made with, 1,263,634; 1,263,635
—, rubber latex, addition to of, 1,270,887
—, silicon, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, size made with, 1,263,634; 1,263,635
—, starch, modified, substitute for, made with, 1,263,634; 1,263,635
—, —, soluble, substitute for, made with, 1,263,634; 1,263,635
—, steel, case-hardening of using, 1,472,850; 1,472,851
—, steel alloy, case-hardening of using, 1,472,850; 1,472,851
—, stiffener made with, 1,263,634; 1,263,635
—, straw, size for, made with, 1,263,634; 1,263,635
Boron(ic) chloride, straw hat, size for, made with, 1,263,634; 1,263,635
—, tungsten, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, —, ductile, made using, 1,179,009
—, tungsten alloy, ductile, made using, 1,179,009
Boron electrode, chromium, ductile, made with, 1,297,000
—, metal, ductile, made with, 1,297,000
—, molybdenum, ductile, made with, 1,297,000
—, tungsten, ductile, made with, 1,297,000
Boron fluoride, boron, copper alloy contg., made with, 1,136,909; 1,169,536
—, copper alloy, boron in, made with, 1,126,629; 1,136,909; 1,169,536
—, electric translating apparatus made with, 1,286,316; 1,286,882
—, glass made with, 1,419,032
—, lamp, electric, made with, 1,286,882
—, —, vapor, made with, 1,286,316
—, mfr. of, boric acid for 1,136,909
—, —, calcium fluoride for, 1,136,909
—, —, process for, 1,136,909
Boron halide, boron, pure, from, process for, 1,306,568
—, reduction of, calcium for, 1,306,568
—, —, potassium for, 1,306,568
—, —, sodium for, 1,306,568
Boron hydride, ammonia, catalyst for the mfr. of, made with, 1,201,226
—, catalyst, hydrogenation, made with, 1,201,226
—, nickel boride catalyst made with, 1,255,590
"Boron-lime," 1,444,989
Boron nitrate, chromium, ductile, made with, 1,297,000
—, heater, chemical, made with, 1,506,322
—, metal, ductile, made with, 1,297,000
—, molybdeum, ductile made with, 1,297,000
—, tungsten, ductile, made with, 1,297,000
Boron nitride, alkali cyanide made with, 1,472,403
—, ammonia from, 1,464,292
—, beryllium, pure, made with, 1,306,568
—, boron, pure, made with, 1,306,568
—, boron carbide made with, 1,501,419
—, heater, electric, made with, 1,181,800
—, insulation, electric, made with, 1,181,800
—, insulators of, 1,377,553
—, lamp, electric incandescent, made with, 1,234,691
—, mfr. of, apparatus for, 1,311,568
—, —, borax for, 1,135,232
—, —, boron compound for, 1,135,232
—, —, boron oxide for, 1,493,126
—, —, boron trioxide for, 1,135,232; 1,464,292
—, —, carbon for, 1,311,568
—, —, cyanide for, 1,135,232
—, —, ferrocyanide for, 1,135,232
—, —, nitrogen for, 1,311,568; 1,464,292
—, —, potassium cyanide for, 1,135,232
—, —, process for, 1,135,232; 1,311,568; 1,464,292
—, —, sodium for, 1,464,292
—, —, sodium carbonate as by-product of, 1,135,232
—, —, sodium cyanide for, 1,135,232

Boron nitride, preparation of, 1,337,264
—, sodium borate ($Na_6B_4O_9$), made with, 1,464,292
—, sodium borate and ammonia from, 1,464,292
—, sodium cyanide made with, 1,472,403
—, solid bodies of, preparing, 1,337,264
—, stable, mfr. of, ammonium salt for, 1,157,271
—, —, —, borax for, 1,157,271
—, —, —, boron trioxide for, 1,157,271
—, —, —, magnesium for, 1,157,271
—, —, —, process for, 1,157,271
—, titanium, pure, made with, 1,306,568
—, tungsten, ductile, made using, 1,179,009
—, tungsten alloy, ductile, made using, 1,179,009
—, uranium, pure, made with, 1,306,568
—, zirconium, pure, made with, 1,306,568
Boron nitride cathode, lamp, electric, made with, 1,188,194
Boron ores, decomposing, sulfur dioxide for, 1,462,064
—, sodium decaborate ($Na_2B_{10}O_{16}$), made with, 1,468,366
—, treatment of, 1,295,958
—, *see also Bechilite; Borax; Colemanite; Ore; Ulexite*
Boron oxide, abrasive made with, 1,343,976; 1,343,977; 1,442,773
—, acetaldehyde, catalyst for the mfr. of, made with, 1,487,020
—, anthraquinone, catalyst for the mfr. of, made with, 1,487,020
—, benzaldehyde, catalyst for the mfr. of, made with, 1,487,020
—, boron nitride made with, 1,337,264; 1,464,292; 1,493,126
—, catalyst, dehydrogenation, made with, 1,215,334
—, —, hydrogenation, made with, 1,215,334
—, chromium, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, —, ductile, made with. 1,297,000
—, copper, tungsten, composite body of and, made with, 1,162,339; 1,162,341
—, crucibles coated by, 1,378,189
—, dehydrogenation, catalyst for, made with, 1,215,334
—, diamond substitute made with, 1,343,976; 1,343,977
—, electrical resistance element contg., 1,349,053
—, formaldehyde, catalyst for the mfr. of, made with, 1,487,020
—, glass contg., 1,394,296
—, hard material made with, 1,343,976; 1,343,977
—, hydrogenation, catalyst for, made with, 1,215,334
—, iron-case-hardening of using, 1,472,850; 1,472,851
—, iron alloy, case-hardening of using, 1,472,850; 1,472,851
—, lamp, incandescent, filament for made with, 1,154,701
—, manganese, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, metal, ductile, made with, 1,297,000
—, mold, sand, made with, 1,153,230; 1,153,231
—, molybdenum, alloy contg., case-hardening of using, 1,472,850; 1,472,851
Boron oxide, molybdenum, ductile, made with, 1,297,000
—, nickel, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, nickel oxide glass free from, 1,305,793; 1,305,794
—, reduction of, apparatus for, 1,512,271
—, —, carbon for, 1,512,271
—, —, coke for, 1,512,271
—, —, hydrogen for, 1,512,271
—, —, pitch for, 1,512,271
—, —, process for, 1,512,271
—, —, rutile for, 1,512,271
—, —, titanium dioxide for, 1,512,271
—, —, silica for, 1,512,271
—, silicon, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, steel, case-hardening of using, 1,472,850; 1,472,851
—, steel alloy, case-hardening of using, 1,472,850; 1,472,851
—, tungsten, alloy contg., case-hardening of using, 1,472,850; 1,472,851
—, —, copper, composite body of and, made with, 1,162,339; 1,162,341
—, —, ductile, made with, 1,297,000
—, zeolite, artificial, made with, 1,193,794
—, (B_2O), ammonia made with, 1,129,508
—, —, ammonium carbonate made with, 1,129,508
—, —, boron carbide (B_2C_3), made with, 1,129,508
—, —, —, (B_4C_3), made with, 1,129,508
—, —, boron carbonitride ($B_2C_3N_6$), made with, 1,129,508
—, —, carbon monoxide made with, 1,129,508
—, (B_2O_3), *see Boron trioxide*
Boron(ic) oxide, carbon protected from oxidation by, 1,425,603
—, electrode, arc-light, made with, 1,134,148; 1,148,183; 1,148,184
—, glass contg., 1,431,166
—, insulating material bonded with, 1,386,008
—, *see also Boron trioxide*
Boron oxide ore, reduction of, apparatus for, 1,512,271
—, —, carbon for, 1,512,271
—, —, coke for, 1,512,271
—, —, hydrogen for, 1,512,271
—, —, pitch for, 1,512,271
—, —, process for, 1,512,271
—, —, rutile for, 1,512,271
—, —, silica for, 1,512,271
—, —, titanium dioxide for, 1,512,271
Boron suboxide, boron, copper alloy contg., made with, 1,169,536
—, copper, blowholes, in prevented by, 1,390,243
—, —, tungsten having terminal of, made with, 1,226,470
—, copper alloy, boron in, made with, 1.169,536
—, tungsten, copper terminal for, made with, 1,226,470
Boron tartrate, brass, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, copper, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842

Boron tartrate, electrolyte for etching contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, nickel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, steel, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, zinc, etching of, electrolyte contg., 1,314,839; 1,314,840; 1,314,841; 1,314,842
Boron titanate (B_2TiO_6), see Titanium borate (TiB_2O_6)
Boron trichloride, production of, borax for, 1,183,445
—, —, calcium chloride for, 1,183,445
—, —, carbon for, 1,183,445
—, —, coal for, 1,183,445
—, —, process for, 1,183,445
—, —, sulfur for, 1,183,445
Boron trioxide, abrasive made with, 1,234,905
—, absorption of from gases, 1,295,958
—, alloy, purification of using, 1,248,503
—, ammonia made with, 1,464,292
—, boron made with, 1,131,189; 1,464,292
—, boron, copper alloy contg., made with, 1,169,536
—, boron carbide made with, 1,501,419
—, boron nitride made with, 1,135,232
—, boron nitride, stable, made with, 1,157,271
—, borosilicate glass made with, 1,449,793
—, camphol borate made with, 1,478,690
—, clay decomposed with, 1,399,217
—, cobalt made using, 1,166,067
—, copper, purification of using, 1,204,926; 1,204,927; 1,248,503
—, —, refining of, using, 1,204,927
—, copper alloy, boron in, made with, 1,169,536
—, electrode, arc-light, made with, 1,148,183; 1,148,184; 1,326,605
—, glass made with, 1,365,797; 1,449,793; 1,508,455; 1,513,923
—, heater, electric, made with, 1,181,800
—, insulation, electric, made with, 1,181,800
—, insulator, electric, made with, 1,233,486
—, iron, purification of using, 1,248,503
—, mfr. of, borax for, 1,493,126
—, —, carbon for, 1,493,126
—, —, charcoal for, 1,493,126
—, —, coke for, 1,493,126
—, —, process for, 1,493,126
—, metal, purification of using, 1,248,503
—, mold, sand, made with, 1,153,230; 1,153,231
—, potassium salts from silicates with, 1,399,216; 1,399,217
—, refractory made with, 1,267,686
—, resistors coated with, 1,365,331
—, sodium oxide made with, 1,464,292
—, solvent for, benzene as, 1,181,800
—, steel, hardening of using, 1,190,937
—, zeolite, artificial, made with, 1,193,795
Boron trisulfide, battery, electric, contg., 1,316,760
Boro potassium fluoride, rare earths precipitated by, 1,371,741
Boro silicates, glass constituents, 1,394,973
Borosilicate glass, mfr. of, aluminum oxide for, 1,449,793
—, —, antimony oxide for, 1,449,793
—, —, arsenic oxide for, 1,449,793
Borosilicate glass, mfr. of, barium oxide for, 1,449,793
—, —, boron trioxide for, 1,449,793
—, —, calcium oxide for, 1,449,793
—, —, didymium oxide for, 1,449,793
—, —, lead oxide for, 1,449,793
—, —, magnesium oxide for, 1,449,793
—, —, manganese dioxide for, 1,449,793
—, —, neodymium oxide for, 1,449,793
—, —, nickel oxide for, 1,449,793
—, —, selenium for, 1,449,793
Borovertin, see Hexamethylenetetramine triborate
Borowolframic acid, see Borotungstic acid
Borromite, benzine, refining of using, 1,515,733
—, gasolene, refining of using, 1,515,733
—, kerosene, refining of using, 1,515,733
—, hydrocarbon, refining of using, 1,515,733
—, naphtha, refining of using, 1,515,733
—, petroleum products, refining of using, 1,515,733
Borsayl, see Sodium boro-salicylate
Boryl, see Ethyl-boro-salicylate
Bostonite, see Asbestos
Botallackite, see Copper oxychloride
Botany Bay resin, see Acaroid
Bottle, cap for, see Bottle cap
Bottles, capsuling, composition for, formula, sodium sulfate, sugar, gelatin, whiting, water, 1,428,096
—, celluloid, mfr. of, process for, 1,154,931; 1,272,921
—, gasket for, mfr. of, barite for, 1,322,823
—, —, —, carbon black for, 1,322,823
—, —, —, castor oil for, 1,322,823
—, —, —, ceresin for, 1,322,823
—, —, —, infusorial earth for, 1,322,823
—, —, —, iron(ic) oxide for, 1,322,823
—, —, —, kaolin for, 1,322,823
—, —, —, oil, mineral, for, 1,322,823
—, —, —, —, vegetable, for, 1,322,823
—, —, —, paraffin for, 1,322,823
—, —, —, petrolatum for, 1,322,823
—, —, —, rubber, crude for, 1,322,823
—, —, —, talc for, 1,322,823
—, mfr. of, process for, 1,203,448
—, *paper, see Container, paper*
—, seal for, air tight, mfr. of, 1,299,389
—, —, germ-proof, mfr. of, 1,299,389
—, —, mfr. of, gelatin in, 1,299,389
—, —, —, gum arabic in, 1,299,389
—, —, parchment coated with, gum and albuminoid for, 1,299,389
—, transparent collapsible, mfr. of, celluloid for, 1,272,921
—, —, —, process for, 1,272,921
—, *see also Container*
Bottle cap, fibrous, mfr. of, process for, 1,209,091
—, mfr. of, acetin for, 1,520,940
—, —, acetone for, 1,520,940
—, —, albumin for, 1,149,200; 1,234,711
—, —, ammonium bisulfate for, 1,486,641
—, —, ammonium sulfate for, 1,486,641
—, —, apparatus for, 1,486,641
—, —, barium sulfate for, 1,351,438
—, —, blood for, 1,234,711
—, —, bronze powder for, 1,502,940

Bottle cap, mfr. of, calcium sulfate for, 1,160,478
—, —, casein for, 1,351,438
—, —, celluloid for, 1,520,940
—, —, cellulose for, 1,351,438
—, —, cellulose acetate for, 1,520,940
—, —, cellulose xanthogenate for, 1,486,641
—, —, clay for, 1,149,200; 1,351,438
—, —, copal for, 1,149,200; 1,234,711
—, —, cork for, 1,213,926
—, —, ethyl alcohol for, 1,160,478
—, —, formaldehyde for, 1,486,641
—, —, gelatin for, 1,351,438
—, —, glycerol for, 1,213,926
—, —, gypsum for, 1,149,200
—, —, infusorial earth for, 1,149,200
—, —, magnesium chloride for, 1,419,200
—, —, metal for, 1,234,711
—, —, metal foil for, 1,213,926; 1,351,438
—, —, paper for, 1,149,200; 1,160,478; 1,213,926; 1,234,711; 1,351,438
—, —, paper, blotting, for, 1,160,478
—, —, —, sulfite, for, 1,351,438
—, —, paraffin for, 1,149,200; 1,160,478
—, —, process for, 1,149,200; 1,160,478; 1,213,926; 1,234,711; 1,351,438; 1,486,641; 1,520,940
—, —, proteid for, 1,234,711
—, —, resin for, 1,234,711; 1,351,438
—, —, resin, aliphatic, for, 1,160,478
—, —, —, conifer, for, 1,160,478
—, —, rosin for, 1,149,200; 1,160,478
—, —, shellac for, 1,160,478
—, —, silica for, 1,160,478
—, —, sodium carbonate for, 1,160,478
—, —, sodium chloride for, 1,486,641
—, —, sodium hydroxide for, 1,160,478
—, —, sodium silicate for, 1,213,926
—, —, sodium sulfite for, 1,486,641
—, —, starch, modified, for, 1,351,438
—, —, sulfuric acid for, 1,486,641
—, —, tin foil for, 1,213,926
—, —, viscose for, 1,351,438; 1,486,641; 1,520,940
—, paper impregnated with resinous material and coated with viscose for, 1,351,438
Bottle-capsuling compound, formula, glue or sodium silicate, talc or zinc white, soap, carnauba wax, 1,442,752
Bottle closure, mfr. of, cardboard for, 1,184,568
—, —, cork for, 1,179,147
—, —, metal for, 1,179,147
—, —, paper, corrugated for, 1,179,147
—, —, —, oiled, for, 1,184,568
—, —, paraffin for, 1,179,147
—, —, process for, 1,179,147; 1,184,568
—, —, wax for, 1,179,147
—, sealing disk for, mfr. of, apparatus for, 1,184,354
—, —, —, cork for, 1,184,354
—, —, —, paraffin for, 1,184,354
—, —, —, process for, 1,184,354
—, *see also Bottle cap*
Bottle covering, mfr. of, acetic acid, glacial, for, 1,149,532
—, —, cellulose, hydrated, for, 1,149,532
—, —, cellulose acetate for, 1,149,532
—, —, cellulose acetate, hydrated, for, 1,149,532
—, —, cellulose ester for, 1,149,532
Bottle covering, mfr. of, cellulose ester, hydrated, for, 1,149,532
—, —, glycerol for, 1,149,532
—, —, process for, 1,149,532
Bottle green S. 5827, silk dyed with, 1,446,860
Bottle lacquer, see Bottle-capsuling compound
Bottle seal, mfr. of, calcium sulfate for, 1,160,478
—, —, ethyl alcohol for, 1,160,478
—, —, paper for, 1,160,478
—, —, paper, blotting, for, 1,160,478
—, —, paraffin for, 1,160,478
—, —, process for, 1,160,478
—, —, resin, aliphatic, for, 1,160,478
—, —, —, conifer, for, 1,160,478
—, —, rosin for, 1,160,478
—, —, shellac for, 1,160,478
—, —, silica for, 1,160,478
—, —, sodium carbonate for, 1,160,478
—, —, sodium hydroxide for, 1,160,478
Bottle sealing cap, see Bottle cap
Bottle sealing composition, mfr. of, acacia for, 1,428,096
—, —, cochineal for, 1,428,096
—, —, dyestuff for, 1,428,096
—, —, gelatin for, 1,428,096
—, —, process for, 1,428,096
—, —, sodium sulfate for, 1,428,096
—, —, sugar, cane, for, 1,428,096
—, —, talc for, 1,428,096
—, —, tripolite for, 1,428,096
—, —, whiting for, 1,428,096
Bottle sealing discs, mfr. of, cork for, 1,453,617
Bottle stopper, mfr. of, cedar wood for, 1,247,864
—, —, process for, 1,247,864
—, —, sodium chloride for, 1,247,864
—, —, water for, 1,247,864
—, —, wax for, 1,247,864
—, —, wood for, 1,247,864
Bottom settlings, alkali earth bicarbonate in, 1,223,659; 1,223,660
—, calcium chloride in, 1,223,659; 1,223,660
—, magnesium chloride in, 1,223,659; 1,223,660
—, petroleum, recovery of from, process for, 1,223,659; 1,223,660
—, treatment of, apparatus for, 1,223,659; 1,223,660
—, —, carbonates for, 1,223,659; 1,223,660
—, —, hydroxide for, 1,223,659; 1,223,660
—, —, process for, 1,223,659; 1,223,660
—, —, silicates for, 1,223,659; 1,223,660
—, —, soap for, 1,223,659; 1,223,660
—, —, soap, oleic acid for, 1,223,659; 1,223,660
—, —, sodium carbonate for, 1,223,659; 1,223,660
—, —, sodium hydroxide for, 1,223,659; 1,223,660
—, —, sodium silicate for, 1,223,659; 1,223,660
—, —, sodium sulfate for, 1,223,659; 1,223,660
—, —, sulfates for, 1,223,659; 1,223,660
—, —, sulfuric acid for, 1,223,659; 1,223,660
—, —, water for, 1,223,659; 1,223,660
Bougies, see Medicated pencil
Bouncing bet, see Soapwort
B. O. V., see Sulfuric acid, brown
Bovine hair, see Hair, bovine
Bowl gum wood, paper made with, 1,166,848
—, wood pulp made with, 1,166,848

Bowling ball, mfr. of, apparatus for, 1,203,747
—, —, bone black for, 1,203,747
—, —, casein composition for, 1,437,487
—, —, cork for, 1,203,747
—, —, glue for, 1,168,831
—, —, iron(ic) oxide for, 1,203,747
—, —, magnesium chloride for, 1,203,747
—, —, magnesium oxide for, 1,203,747
—, —, peat for, 1,203,747
—, —, phenol aldehyde condensate for, 1,203,747
—, —, pigment for, 1,203,747
—, —, process for, 1,168,831; 1,203,747; 1,437,487
—, —, rope for, 1,203,747
—, —, rosin for, 1,168,831
—, —, rubber composition for, 1,437,487
—, —, sawdust for, 1,168,831; 1,203,747
—, —, shellac for, 1,168,831
—, —, sodium silicate for, 1,168,831
—, —, wood for, 1,168,831; 1,203,747
—, —, wood shavings for, 1,168,831
Bowling pin, charred base for, 1,202,138
—, compressed air contained in, 1,519,835
—, mfr. of, cellulose sulfite liquor for, 1,227,248
—, —, cork for, 1,205,278
—, —, dextrin for, 1,227,248
—, —, glue for, 1,168,831; 1,227,248
—, —, gum for, 1,205,278
—, —, metal for, 1,520,106
—, —, paper for, 1,227,248
—, —, process for, 1,168,831; 1,182,882; 1,202,138; 1,205,278; 1,227,248; 1,519,835; 1,520,106
—, —, rosin for, 1,168,831
—, —, rubber for, 1,182,882; 1,520,106
—, —, rubber hard, for, 1,182,882
—, —, sawdust for, 1,168,831
—, —, shellac for, 1,168,831
—, —, sodium silicate for, 1,168,831
—, —, sulfur for, 1,182,882
—, —, varnish for, 1,227,248
—, —, wax for, 1,202,138
—, —, wood for, 1,168,831; 1,182,882
—, —, wood, hard, for, 1,205,278
—, —, wood shavings for, 1,168,831; 1,182,882
—, *see also Ten pin*
Box, construction of, 1,315,593
—, corrugated, waterproofing composition for, 1,326,079
—, mfr. of, adhesive for, 1,464,242
—, —, asbestos for, 1,464,242
—, —, castor oil for, 1,464,242
—, —, cellulose nitrate for, 1,464,242
—, —, cork for, 1,464,242
—, —, cotton for, 1,464,242
—, —, ethyl acetate for, 1,464,242
—, —, glue for, 1,205,519
—, —, gum for, 1,464,242
—, —, jute for, 1,464,242
—, —, lacquer for, 1,205,519
—, —, lacquer, gold, for, 1,205,519
—, —, linen for, 1,464,242
—, —, linseed oil for, 1,464,242
—, —, metal for, 1,205,519; 1,464,242
—, —, paper for, 1,205,519; 1,464,242
—, —, process for, 1,205,519
—, —, resin for, 1,464,242
Box, mfr. of, rubber for, 1,464,242
—, —, slate for, 1,464,242
—, —, wire netting for, 1,464,242
—, paper, oil-proof, mfr. of, benzoic acid for, 1,311,595
—, —, —, —, borax for, 1,311,595
—, —, —, —, boric acid for, 1,311,595
—, —, —, —, calcium chloride for, 1,311,595
—, —, —, —, cellulose sulfite liquor for, 1,311,595
—, —, —, —, dextrin for, 1,311,595
—, —, —, —, glue for, 1,311,595
—, —, —, —, glycerol for, 1,311,595
—, —, —, —, glycerol substitute for, 1,311,595
—, —, —, —, molasses for, 1,311,595
—, —, —, —, paraffin for, 1,311,595
—, —, —, —, potassium acetate for, 1,311,595
—, —, —, —, process for, 1,311,595
—, —, —, —, sodium silicate for, 1,311,595
—, —, —, —, sugar for, 1,311,595
—, *plastic composition for making, see Plastic composition*
Box-berry, see Wintergreen
Box board, mfr. of, adhesive for, 1,154,138
—, —, glue for, 1,154,138
—, —, paper for, 1,154,138
—, —, paper, Kraft, for, 1,154,138
—, —, process for, 1,154,138
—, —, wood for, 1,154,138
—, waxed, mfr. of, paper scrap, waxed, for, 1,344,620
—, —, —, process for, 1,344,620
—, —, —, water for, 1,344,620
—, *see also Paper board*
Box filling, mfr. of, apparatus for, 1,513,543
—, —, cellulose for, 1,513,543
—, —, paper for, 1,513,543
—, —, paper, glassene, for, 1,513,543
—, —, —, paraffin, for, 1,513,543
—, —, —, wax, for, 1,513,543
—, —, process for, 1,513,543
Box toe, see Shoe, box toe for
Box wood, American, phonograph needle made with, 1,266,949
—, English, phonograph needle made with, 1,266,949
Boxwood charcoal, see Charcoal, boxwood
Bracelet, mfr. of, process for, 1,189,882
Brachtypous manganese ore, see Braunite
Bracken, fertilizer made with, 1,471,979
Bracken paste, paper, water-proof, made with, 1,307,405
Brain, tissue from blood coagulating medium from, 1,397,896
Braize, fuel briquet contg., 1,357,627
Brake, composition for treating, see Composition, anti-squeak
—, operation of, gas, under pressure, developed for, 1,493,347
Brake band, asbestos, mfr. of, process for, 1,301,612; 1,465,389
—, lubricant for, formula, oil, ammonia soap, 1,414,227; 1,414,311
—, mfr. of, acacia for, 1,307,857
—, —, acetone for, 1,307,857
—, —, aluminum sulfate for, 1,307,857

Brake band, mfr. of, asbestos for, 1,307,857
—, —, asphaltum for, 1,307,857
—, —, casein for, 1,465,389
—, —, copper for, 1,203,338
—, —, copper alloy, lead in, for, 1,203,338
—, —, copper sulfate for, 1,307,857
—, —, cork for, 1,465,389; 1,485,180
—, —, cotton for, 1,485,180
—, —, fire-proofing for, 1,307,857
—, —, graphite for, 1,485,180
—, —, grease for, 1,485,180
—, —, gypsum for, 1,203,338
—, —, iron sulfate for, 1,307,857
—, —, lead for, 1,203,338
—, —, lead alloy, copper in, for, 1,203,338
—, —, ligroin for, 1,307,857
—, —, lubricant for, 1,485,180
—, —, magnesium oxide for, 1,465,389
—, —, magnesium sulfate for, 1,307,857
—, —, oil for, 1,485,180
—, —, phenol-aldehyde condensate for, 1,465,389
—, —, phosphor-copper for, 1,203,338
—, —, phosphorus for, 1,203,338
—, —, pitch for, 1,485,180
—, —, plaster of Paris for, 1,203,338
—, —, process for, 1,203,338; 1,307,857; 1,485,180
—, —, resin for, 1,307,857
—, —, sodium hydroxide for, 1,307,857
—, —, stearin for, 1,485,180
—, —, sulfur for, 1,203,338
—, —, tallow for, 1,485,180
—, —, tin sulfate for, 1,307,857
—, —, turpentine for, 1,307,857
—, —, zinc sulfate for, 1,307,857
—, treating, lubricating oil for, 1,418,695
Re-15,543
—, unwoven, mfr. of, 1,465,389
—, *see also Brake block; Clutch band; Clutch lining; Friction band; Friction facing; Friction surface, etc.; Transmission bands*
Brake block, mfr. of, process for, 1,307,857
—, *see also Brake band; Clutch lining; Friction surfaces*
Brake lining, composition for impregnating, formula, asphalt, red lead, sulfur, hexamethylenetetramine, gasolene, benzene, 1,354,996
—, cork and cotton fibers in, 1,416,979
—, cotton in, asphalt for impregnating, 1,452,555
—, —, gilsonite for impregnating, 1,452,555
—, —, linseed oil for impregnating, 1,452,555
—, —, naphtha for, impregnating, 1,452,555
—, —, turpentine oil for impregnating, 1,452,555
—, dressing for, formula, castor oil 2 oz., neat's foot oil 4 oz., crude oil 4 oz., fuller's earth 5 oz., 1,338,811
—, —, —, petroleum oil 2 gal., rosin 1 lb., Fuller's earth ¾ lb., 1,461,386
—, impregnating, China wood oil for, 1,436,362
—, mfr. of, acetone for, 1,429,267
—, —, alcohol for, 1,414,378; 1,429,267; 1,519,322
—, —, ale for, 1,162,371
—, —, alum for, 1,151,690; 1,162,371
—, —, amyl acetate for, 1,414,378; 1,429,267
—, —, amyl alcohol for, 1,429,267
—, —, apparatus for, 1,517,606
—, —, asbestos for, 1,151,690; 1,162,371; 1,277,108; 1,395,744; 1,414,378; 1,414,383; 1,417,778; 1,417,779; 1,418,607; 1,420,882; 1,420,883; 1,426,842; 1,517,606; 1,519,322
—, —, asbestos treated with alkali, earth hydroxide for, 1,256,296
—, —, asphalt for, 1,277,108; 1,354,996; 1,395,744; 1,426,842; 1,429,267; 1,452,555
—, —, beer for, 1,162,371
—, —, benzene for, 1,277,108; 1,354,996; 1,414,378; 1,426,842; 1,429,267; 1,519,322
—, —, benzine for, 1,414,378
—, —, bitumen for, 1,414,378
—, —, bituminous material for, 1,429,267
—, —, bone for, 1,151,690; 1,162,371
—, —, canvas for, 1,512,451
—, —, carbon bisulfide for, 1,277,108; 1,354,996
—, —, carbon tetrachloride for, 1,277,108; 1,354,996
—, —, cement, Portland, for, 1,426,842
—, —, China wood oil, hydrogenated and polymerized, for, 1,395,744
—, —, clay for, 1,426,842
—, —, cork for, 1,512,451
—, —, cotton for, 1,418,607; 1,452,555
—, —, cresol for, 1,429,267
—, —, diamino-naphthalene for, 1,354,996
—, —, felt for, 1,155,054
—, —, flax for, 1,277,108
—, —, formaldehyde for, 1,429,267
—, —, fusel oil for, 1,429,267
—, —, gasolene for, 1,277,108; 1,354,996; 1,414,383; 1,417,778; 1,417,779; 1,420,882; 1,426,842; 1,519,322
—, —, gilsonite for, 1,277,108; 1,354,996; 1,395,744; 1,414,383; 1,417,778; 1,417,779; 1,420,882; 1,452,555
—, —, grahamite for, 1,395,744
—, —, gum for, 1,414,378; 1,429,267
—, —, hemp for, 1,277,108
—, —, hexamethylenetetramine for, 1,277,108; 1,354,996
—, —, hydrocarbon for, 1,429,267
—, —, iron alum for, 1,151,690
—, —, iron(ic) alum for, 1,162,371
—, —, kaolin for, 1,426,842
—, —, lead, red, for, 1,277,108; 1,354,996; 1,417,778
—, —, lead oxides for, 1,277,108; 1,417,778
—, —, lead oxide, red, for, 1,414,383
—, —, lead resinate for, 1,420,883
—, —, lead sulfide for, 1,417,779;; 1,420,882
—, —, linseed oil for, 1,414,383; 1,417,778; 1,417,779; 1,420,882; 1,420,883; 1,452,555
—, —, linseed oil, sulfurized, for, 1,417,779
—, —, magnesium sulfate for, 1,151,690; 1,162,371
—, —, methyl alcohol for, 1,155,054
—, —, *N.N'*-methylenebis-aniline for, 1,429,267
—, —, methylene-diphenylamine for, 1,418,607
—, —, mica for, 1,205,482
—, —, molasses for, 1,429,267
—, —, naphtha for, 1,426,842; 1,519,322
—, —, naphtha, coal tar, for, 1,414,378
—, —, —, petroleum, for, 1,414,378; 1,452,555
—, —, naphthol for, 1,429,267
—, —, oils for, 1,418,607
—, —, oil, drying, for, 1,429,267
—, —, —, mineral, for, 1,414,378

Brake lining, mfr. of, oil, oxidized, for, 1,429,267
—, —, —, vegetable, for, 1,414,378
—, —, paper pulp, sulfite, for, 1,420,883
—, —, paraformaldehyde for, 1,429,267
—, —, phenol for, 1,418,607; 1,429,267
—, —, phenol aldehyde condensate for, 1,418,607; 1,426,842; 1,519,322
—, —, phenol aldehyde condensation product for, 1,429,267
—, —, phenol furaldehyde condensate for, 1,519,322
—, —, *p*-phenylenediamine for, 1,354,996
—, —, pitch for, 1,429,267
—, —, process for, 1,151,690; 1,155,054; 1,162,371; 1,168,810; 1,277,108; 1,292,027; 1,354,996; 1,414,378; 1,414,383; 1,417,778; 1,417,779; 1,418,607; 1,420,882; 1,420,883; 1,426,842; 1,429,267; 1,430,143; 1,452,555; 1,512,451; 1,517,606; 1,519,322
—, —, resins for, 1,429,267
—, —, rosin for, 1,155,054; 1,429,267; 1,519,322
—, —, rubber for, 1,429,267; 1,517,606
—, —, shellac for, 1,155,054
— —, soap, phenol aldehyde condensate, for, 1,519,322
—, —, —, rosin, for, 1,519,322
—, —, sodium hydroxide for, 1,519,322
—, —, sodium resinate for, 1,519,322
—, —, starch for, 1,420,883
—, —, steel wool for, 1,418,607
—, —, sugar for, 1,429,267
—, —, sulfur for, 1,277,108; 1,354,996; 1,417,779; 1,420,882
—, —, sulfuric acid for, 1,519,322
—, —, tars for, 1,418,607; 1,429,267
—, —, tetramethylenediamine for, 1,354,996
—, —, toluene for, 1,420,883; 1,519,322
—, —, trioxymethylene for, 1,429,267
—, —, turpentine for, 1,155,054; 1,452,555
—, —, varnish for, 1,429,267
—, —, vinegar, beer, for, 1,162,371
—, —, —, salt, for, 1,162,371
—, —, wax for, 1,418,607; 1,426,842; 1,429,267
—, —, wool felt for, 1,155,054
—, marking of, ink, aluminum, for, 1,188,588
—, pin for securing of, construction of, 1,180,026
—, *see also Clutch facing; Clutch lining; Fabric, frictional; Friction facing; Friction lining; Friction surface*
Brake shoes, filling composition for, formula, iron 24 parts, linseed oil (or China wood oil) 7, asbestos 28, coke 32, 1,429,358
—, mfr. of, aluminum for, 1,168,810
—, —, antimony for, 1,205,482
—, —, asbestos for, 1,205,482; 1,242,069
—, —, brass wire for, 1,242,069
—, —, cement, hydraulic, for, 1,136,936; 1,205,482
—, —, —, Portland, for, 1,136,936; 1,205,482
—, —, graphite for, 1,167,826; 1,168,810
—, —, iron for, 1,166,993
—, —, iron, gray cast, for, 1,168,810
—, —, —, hard, for, 1,167,826
—, —, —, white, for, 1,167,826
—, —, iron ore for, 1,205,482
—, —, lead for, 1,168,810
—, —, linseed oil for, 1,167,826
—, —, oil for, 1,167,826
Brake shoes, mfr. of, process for, 1,136,936; 1,166,993; 1,167,826; 1,168,810; 1,202,529; 1,205,482; 1,242,069
—, —, sodium chloride for, 1,205,482
—, —, sodium silicate for, 1,167,826
—, —, steel for, 1,202,529
—, —, sulfur for, 1,205,482
—, —, tung oil for, 1,167,826
—, —, wood for, 1,166,993
Bran, air, liquid, absorbent for, made with, 1,473,994
—, ale made with, 1,237,724
—, aluminum-potassium nitrate mixed with, 1,377,081
—, bacteria, food stuff for contg., 1,472,344
—, beer made with, 1,237,724
—, beer, coloring for, made with, 1,178,040
—, —, non-alcoholic, made with, 1,262,472
—, beer wort made with, 1,178,039
—, beverage made with, 1,237,724; 1,249,259; 1,276,298; 1,310,277; 1,326,751; 1,414,557
—, beverage, non-alcoholic, made with, 1,262,472
—, —, unfermented, made with, 1,204,869
—, beverage extract made from, 1,366,495
—, blast furnace gas, burner for, made with, 1,223,248; 1,223,249
—, bran extract made with, 1,189,023
—, bread, flour for contg., 1,271,139
—, bread ingredient, 1,387,387
—, carbon monoxide, burner for, made using, 1,223,249
—, cattle feed made with, 1,199,864; 1,497,461
—, cereal food made from raisins and, 1,382,963
—, chicory, roasting of using, 1,179,046
—, china grass, desizing of, using, 1,421,613
—, cleaning composition for windshields contg., 1,378,931
—, coal gas, burner for, made with, 1,223,248; 1,223,249
—, coffee, roasting of using, 1,179,046
—, coffee substitute made using, 1,133,037; 1,189,125; 1,310,277; 1,326,751; 1,348,999; 1,414,557
—, coffee substitute extract made with, 1,163,759; 1,165,415; 1,177,037; 1,177,038; 1,198,393; 1,199,387; 1,204,358
—, coke oven gas, burner for, made using, 1,223,249
—, cotton, de-sizing of, using, 1,421,613
—, enzyme prepared with, 1,460,736
—, ethyl alcohol made with, 1,472,344
—, explosive made with, 1,473,994
—, extracting, process for, 1,331,125
—, extracting ingredients of, apparatus for, 1,334,552
—, fat made with, 1,193,951
—, ferment, food stuff for, contg., 1,472,344
—, fertilizer made with, 1,268,563
—, fireproofed, explosive contg., 1,456,341
—, —, calcium chloride for, 1,456,341
—, fireproofing, calcium chloride for, 1,456,341
—, —, hexachlorethane for, 1,456,341
—, —, magnesium sulfate for, 1,456,341
—, —, sodium chloride for, 1,456,341
—, —, sodium phosphate for, 1,456,341
—, —, sodium silicate for, 1,456,341
—, —, sodium thiosulfate for, 1,456,341

Bran, flour contg., 1,271,139
—, flour, fruited, made with, 1,182,264
—, —, treatment of, using, 1,189,023
—, food made with, 1,261,995
—, food, breakfast, laxative, contg., 1,261,057
—, food product made with, 1,145,021; 1,163,175; 1,164,112; 1,167,127; 1,175,407; 1,178,039; 1,178,040; 1,182,264; 1,182,671; 1,182,860; 1,186,768; 1,189,124; 1,189,129; 1,189,130; 1,205,320; 1,206,804; 1,219,005; 1,271,139; 1,286,766; 1,382,963; 1,415,893; 1,426,756; 1,495,789; 1,503,547
—, gaseous, burner for, made with, 1,223,248; 1,223,249
—, fungi, food stuff for contg., 1,472,344
—, fungi grown on, 1,391,219; 1,421,613
—, fur skin, tanning of, using, 1,210,968
—, gasolene air gas, burner for, made using, 1,223,249
—, glycerol made with, 1,193,951
—, horse feed made with, 1,163,433
—, humic substances made with, 1,472,344
—, hydrocarbon, burner for, made with, 1,223,249
—, hydrogen, burner for, made with, 1,223,249
—, indigo, dyeing with, using, 1,239,526
—, iron, lead alloy coated, made using, 1,189,373
—, —, lead coated, made with, 1,189,373
—, —, tin alloy coated, made with, 1,189,373
—, —, zinc alloy coated, made with, 1,189,373
—, —, zinc coated, made with, 1,189,373
—, iron plates treated with, 1,342,484
—, iron treated with, 1,342,484
—, koji made with, 1,148,938; 1,263,817
—, lactic acid made with, 1,193,951
—, lead, iron coated with, made using, 1,189,373
—, —, metal coated with, made using, 1,189,373
—, —, steel coated with, made using, 1,189,373
—, lead alloy, iron coated with, made using, 1,189,373
—, —, metal coated with, made using, 1,189,373
—, —, steel coated with, made using, 1,189,373
—, malt substitute made with, 1,148,938
—, media contg., 1,400,374
—, medicinal oil by distillation of, 1,346,132
—, metal, lead alloy coated, made using, 1,189,373
—, —, lead coated, made using, 1,189,373
—, —, tin alloy coated, made using, 1,189,373
—, —, zinc alloy coated, made using, 1,189,373
—, —, zinc coated, made using, 1,189,373
—, methane, burner for, made using, 1,223,249
—, molds, food stuff for contg., 1,472,344
—, moyashi made with, 1,148,938
—, mucors, food stuff for contg., 1,472,344
—, natural gas, burner for, made with, 1,223,249
—, "pityrol" from by distillation, medicinal uses, 1,346,132
—, poultry food contg., 1,291,518
—, producer gas, burner for, made with, 1,223,249
—, puffing, 1,426,756
—, ramie, de-sizing of, with, 1,421,613
—, silk, de-gumming of, using, 1,421,613
—, steel, lead alloy coated, made using, 1,189,373
—, —, lead coated, made using, 1,189,373
Bran, steel, tin alloy coated, made with, 1,189,373
—, —, zinc alloy coated, made with, 1,189,373
—, —, zinc coated, made with, 1,189,373
—, steel plates treated using, 1,342,484
—, steel treated with, 1,342,484
—, succinic acid made with, 1,193,951
—, tanning compound contg., 1,210,968
—, textile, de-sizing of, using, 1,421,613
—, tin alloy, iron coated with, made using, 1,189,373
—, —, metal coated with, made using, 1,189,373
—, —, steel coated with, made using, 1,189,373
—, toasting, 1,379,494
—, treating of, process for, 1,379,494
—, valve-stem packing contg., 1,429,455
—, water gas, burner for, made with, 1,223,248; 1,223,249
—, *wheat, see Wheat bran*
—, whole-wheat product contg., 1,374,185
—, yeast, food stuff for contg., 1,472,344
—, yeast food made with, 1,190,827
—, zinc, iron coated with, made using, 1,189,373
—, —, metal coated with, made using, 1,189,373
—, —, steel coated with, made using, 1,189,373
—, zinc alloy, iron coated with, 1,189,373
—, —, metal coated with, made using, 1,189,373
—, —, steel coated with, made using, 1,189,373
Brandol, see Picric acid
Brandy mint, see Peppermint
Bran extract, flour, treatment of using, 1,189,023
—, fuel briquet made with, 1,140,395
—, mfr. of, aluminum cathode for, 1,189,023
—, —, apparatus for, 1,189,023
—, —, bean for, 1,189,023
—, —, bran for, 1,189,023
—, —, cereal for, 1,189,023
—, —, pea for, 1,189,023
—, —, phosphoric acid for, 1,189,023
—, —, platinum anode for, 1,189,023
—, —, potassium bisulfate for, 1,189,023
—, —, process for, 1,189,023; 1,311,125
—, —, seed for, 1,189,023
—, —, sulfate for, 1,189,023
—, —, tin cathode for, 1,189,023
Bran food, see Food product
Bran hulls, food product made with, 1,153,925
Bran straw, bacteria, food stuff for contg., 1,472,344
—, ethyl alcohol made with, 1,472,344
—, ferments, food stuff for contg., 1,472,344
—, fungi, food stuff for contg., 1,472,344
—, humic substance made with, 1,472,344
—, molds, food stuff for contg., 1,472,344
—, mucors, food stuff for contg., 1,472,344
—, yeast, food stuff for contg., 1,472,344
Brass, acid, organic, made with, 1,517,968
—, air, attack of on prevented, calcium bicarbonate for, 1,319,508
—, —, —, permanganate for, 1,319,508
—, —, —, process for, 1,319,508
—, alcohols made with, 1,517,968
—, aldehyde made with, 1,517,968
—, alloy made with, 1,363,382; 1,468,828
—, aluminum, alloy (superficial) of and, mfr. of, apparatus for, 1,224,340

Brass, aluminum, alloy (superficial) of and, mfr. of, process for, 1,224,339; 1,224,340
—, —, coating with of, apparatus for, 1,224,340
—, —, —, process for, 1,224,339; 1224,340
—, aluminum in, eliminating, 1,375,930
—, aluminum plated with, mfr. of, process for, 1,147,718
—, aluminum soldered to, 1,415,925
—, analysis of, hardness test for making, 1,426,623
—, antimony, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating with of, process for, 1,224,339
—, "antiquing," 1,428,170
—, arsenic, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating with of, process for, 1,224,339
—, asbestos cement slate coated with, process for, 1,258,282
—, asbestos composition coated with, process for, 1,258,282
—, battery, dry, made with, 1,331,763; 1,366,095; 1,516,632
—, battery electrode made with, 1,366,095
—, bearing made with, 1,341,938
—, bearing, antifriction, made with, 1,494,099
—, benzene made with apparatus for, 1,282,906
—, bimetallic article made with, 1,250,612; 1,250,862
—, bivinyl made with apparatus of, 1,282,906
—, blower made with, 1,430,561; 1,509,953
—, borax as flux for, 1,309,165
—, boron, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating with of, process for, 1,224,339
—, brick coated with, process for, 1,258,282
—, briquettes of, 1,439,907
—, —, mfr. of, asphalt for, 1,123,719
—, —, —, bitumen for, 1,123,719
—, —, —, coal tar pitch for, 1,123,719
—, —, —, process for, 1,123,719
—, —, —, resin for, 1,123,719
—, —, —, soot for, 1,123,719
—, —, —, tar for, 1,123,719
—, brush, electric, made with, 1,202,818
—, —, electric generator, made with, 1,366,095
—, bullet jackets of, 1,427,127
—, butyraldehyde made with, 1,517,968
—, butyric acid made with, 1,517,968
—, calcium, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating with of, process for, 1,224,339
—, calcium bicarbonate treatment with of, 1,319,508
—, carbon, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating with of, process for, 1,224,339
—, cartridge case made with, 1,233,071
—, cartridge made with, 1,205,942
—, casting of, apparatus for, 1,243,416
—, —, carbon mold for, 1,172,506
—, —, copper for, 1,243,416
—, —, electric furnace for, 1,243,416
—, —, graphite mold for, 1,172,506
—, —, graphite and sand mold for, 1,172,506
—, —, iron mold for, 1,172,506
—, —, mold for, lead jacketed, 1,454,066
Brass, casting of, mold for, zinc in, 1,454,064
—, —, —, zinc chloride in, 1,454,064
—, —, process for, 1,172,506; 1,243,416
—, —, sand mold for, 1,172,506
—, —, sound, making, 1,351,051
—, —, zinc for, 1,243,416
—, catalyst, acid, organic, made with, 1,517,968
—, —, alcohols made with, 1,517,968
—, —, aldehydes made with, 1,517,968
—, —, butyraldehyde made with, 1,517,968
—, —, butyric acid made with, 1,517,968
—, —, esters made with, 1,517,968
—, —, fatty acids made with, 1,517,968
—, —, formaldehyde made with, 1,517,968
—, —, ketones made with, 1,460,876; 1,517,968
—, —, ketones made from alcohols by, 1,450,569
—, —, maleic acid made with, 1,517,968
—, —, malic acid made with, 1,517,968
—, —, oxalic acid made with, 1,517,968
—, —, propionaldehydes made with, 1,517,968
—, —, propionic acid made with, 1,517,968
—, —, quinones made with, 1,517,968
—, —, resin, artificial, made with, 1,517,968
—, —, succinic acid made with, 1,517,968
—, catalyst for acetone production from isopropyl alcohol, 1,412,233
—, catalyst in hydrocarbon dehydrogenation, 1,412,233
—, cathode made with, 1,468,838; 1,470,883
—, cathode of, iron deposited on, 1,412,174
—, celluloid coating for, 1,146,336
—, cement, composition contg., coated with, process for, 1,258,282
—, chromium coated, mfr. of, chromium hydroxide for, 1,496,845
—, —, —, chromium trioxide for, 1,496,845
—, —, —, electrolytic process for, 1,496,845
—, —, —, lead dioxide anode for, 1,496,845
—, —, —, process for, 1,496,845
—, —, —, sulfuric acid for, 1,496,845
—, circuit breaker made with, 1,368,095
—, cleaner for, 1,253,353
—, —, mfr. of, process for, 1,270,105
—, coated with phenol-formaldehyde condensation products, 1,292,535
—, cobalt, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of, and made with, 1,130,077
—, —, —, iridium in, composite sheet of and made with, 1,130,077
—, cobalt alloy, nickel in, platinum, composite sheet of and made with, 1,130,077
—, —, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, —, iridium in, composite sheet of and made with, 1,130,077
—, —, —, iridium, platinum alloy contg., composite sheet of made with, 1,130,077
—, coloring, 1,428,170
—, composition of, copper 72%, zinc 28%, 1,326,775
—, constituents separated in, process for, 1,452,813
—, contact point made with, 1,130,077

Brass, copper in, 1,252,887; 1,326,775; 1,468,828
—, copper cathode made with, 1,468,838
—, copper colored with, 1,417,413
—, copper(ous) oxide made with, 1,402,986
—, copper sulfate made with, 1,446,578; 1,468,988
—, crucible for melting of, mfr. of, alloy, chromium in, for, 1,241,971
—, —, —, —, cobalt in, for, 1,241,971
—, —, —, —, iron in, for, 1,241,971
—, —, —, —, manganese in, for, 1,241,971
—, —, —, —, nickel in, for, 1,241,971
—, —, —, chromium, alloy contg., for, 1,241,971
—, —, —, cobalt, alloy contg., for, 1,241,971
—, —, —, iron, alloy contg., for, 1,241,971
—, —, —, manganese, alloy contg., for, 1,241,971
—, —, —, nickel, alloy contg., for, 1,241,971
—, —, —, process for, 1,241,971
—, crystallizing surface of, ammonium chloride for, 1,207,910
—, —, copper(ic) sulfate for, 1,207,910
—, —, nitric acid for, 1,207,910
—, —, potassium cyanide for, 1,207,910
—, —, process for, 1,207,910
—, —, sawdust for, 1,207,910
—, —, sulfuric acid for, 1,207,910
—, decomposing electrolytically, process for, 1,452,813
—, decorating of, ink, lustrous, for, 1,216,637
—, —, lacquer for, 1,210,637
—, —, process for, 1,210,637
—, —, shellac for, 1,210,637
—, —, varnish for, 1,210,637
—, detonator made with, 1,438,431
—, dial-disk made with, 1,147,979
—, diaphragm made with, 1,366,095
—, diaphragm, phonograph, made with, 1,459,803
—, —, sound reproducing, made with, 1,459,803
—, diolefin made with apparatus of, 1,282,906
—, disk made with, 1,147,979
—, dissolving, chlorine and copper chloride for, 1,353,773
—, electric current, variations of, record for, made using, diaphragm made of, 1,213,613; 1,213,614; 1,213,615
—, electrode, welding, made with, 1,241,899
—, electrodeposition of, ammonium chloride for, 1,515,042
—, —, boric acid for, 1,515,042
—, —, copper cyanide for, 1,515,042
—, —, potassium cyanide for, 1,515,042
—, —, process for, 1,515,042
—, —, sodium bisulfite for, 1,515,042
—, —, sodium carbonate for, 1,515,042
—, —, sodium cyanide for, 1,515,042
—, —, zinc cyanide for, 1,515,042
—, engraving of, electrolyte for, 1,273,432
—, esters made with, 1,517,968
—, etched, electrolyte for, 1,291,310
—, etching of, acacia for, 1,276,599
—, —, acetic acid for, 1,276,599
—, —, albumen, egg, for, 1,276,599
—, —, alcohol for, 1,276,599
—, —, ammonium bichromate for, 1,276,599
—, —, ammonium chloride for, 1,276,599
—, —, apparatus for, 1,276,599
—, —, asphalt for, 1,276,599
—, —, calcium chloride for, 1,276,599
Brass, etching of, chromic acid for, 1,276,599
—, —, citric acid for, 1,276,599
—, —, dragon's blood for, 1,276,599
—, —, electrolyte for, 1,273,432
—, —, —, acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, aluminum nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, ammonium acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, ammonium borate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, ammonium chloride in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, ammonium nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, ammonium tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, ammonium sulfate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, antimony tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, barium acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, barium borate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, barium nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, barium tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, borate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, borax in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, boron tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, cadmium acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, cadmium nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, cadmium tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, calcium acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, calcium nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, calcium tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, chloride in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, chromium acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, chromium salt in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, chromium sulfate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, cobalt acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, cobalt nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, copper acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, copper nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, hydrochloric acid in, 1,314,839; 1,314,840; 1,314,841; 1,314,842

Brass, etching of, electrolyte for, iron acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, iron(ic) chloride in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, iron nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, iron oxalate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, iron sulfate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, iron tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, lead acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, lead nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, lithium nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, lithium tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, magnesium acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, magnesium borate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, magnesium nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, magnesium tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, manganese acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, manganese borate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, manganese nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, manganese sulfate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, mercury acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, meta-borate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, nickel acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, nickel nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, nickel sulfate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, nitric acid, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, oxalate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, potassium acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, potassium borate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, potassium chloride in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, potassium dichromate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, potassium nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, potassium oxalate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, potassium tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
Brass, etching of, electrolyte for, pyro-borate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, sodium acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, sodium borate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, sodium chloride in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, sodium nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, sodium tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, strontium nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, strontium tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, sulfate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, sulfuric acid in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, tartaric acid in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, tartrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, tin nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, uranium acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, uranium nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, zinc acetate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, zinc borate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, —, zinc nitrate in, 1,314,839; 1,314,840; 1,314,841; 1,314,842
—, —, gelatin for, 1,276,599
—, —, glue, fish, 1,276,599
—, —, formic acid for, 1,276,599
—, —, hydrochloric acid for, 1,276,599
—, —, nitric acid for, 1,276,599
—, —, paraffin for, 1,276,599
—, —, potassium bichromate for, 1,276,599
—, —, process for, 1,276,599; 1,289,022
—, —, resin for, 1,276,599
—, —, rock candy for, 1,276,599
—, —, salicylic acid for, 1,276,599
—, —, shellac for, 1,276,599
—, —, sodium chloride for, 1,276,599
—, —, sulfuric acid for, 1,276,599
—, —, wax for, 1,276,599
—, etching electrolytically, solutions for, 1,362,159
—, ethane made with apparatus for, 1,282,906
—, ethylene made with apparatus for, 1,282,906
—, eyelet made with, 1,188,422
—, fan made with, 1,430,561; 1,509,953
—, fan blades made with, 1,430,561
—, fan hub made with, 1,430,561
—, fatty acids made with, 1,517,968
—, felt coated with, process for, 1,258,282
—, ferro-chromium as refractory lining for furnaces for, 1,492,685
—, ferro-silicon as refractory lining for furnaces for, 1,492,685

Brass, ferro-vanadium as refractory lining for furnaces for, 1,492,685
—, filings, intensifier contg., 1,397,788
—, flavoring compounds made with, 1,517,968
—, formaldehyde made with, 1,517,968
—, formula, copper, 65.83%, lead 2.31½%, zinc, 31.71%, 1,468,828
—, foundry ash, recovery of from, 1,309,165
—, furnace, electric, made with, 1,217,497
—, gasolene made with apparatus for, 1,282,906
—, glass as flux for, 1,309,165
—, gold coated, mfr. of, gold chloride for, 1,208,507
—, —, —, potassium bitartrate for, 1,208,507
—, —, —, potassium cyanide for, 1,208,507
—, —, —, potassium iodide for, 1,208,507
—, —, —, process for, 1,208,507
—, golf ball made with, 1,182,605
—, golf ball, mold for, made with, 1,491,816
—, gypsum, composition contg., coated with, process for, 1,258,282
—, hardness of, determining, 1,426,623
—, hardness increased of, process for, 1,326,775
—, heat treatment of, lead for, 1,520,744
—, —, potassium chloride for, 1,520,744
—, —, process for, 1,520,744
—, —, sodium carbonate for, 1,520,744
—, hollow article made with, 1,506,061
—, hydroazoic acid, action of on, 1,453,976
—, hydrogen in, eliminating, 1,351,051
—, invar, bimetallic bar of and, 1,250,612; 1,250,862
—, iridium, platinum alloy contg., cobalt, composite sheet of and made with, 1,130,077
—, —, —, cobalt alloy, nickel in, composite sheet of and made with, 1,130,077
—, —, —, iron, composite sheet of and made with, 1,130,077
—, —, —, iron, alloy, composite sheet of and made with, 1,130,077
—, —, —, nickel, composite sheet of and made with, 1,130,077
—, —, —, nickel alloy, cobalt in, composite sheet of and made with, 1,130,077
—, —, —, steel, composite sheet of and made with, 1,130,077
—, —, —, steel alloy, composite sheet of and made with, 1,130,077
—, iron, cast, impregnation of with, 1,511,063
—, —, coating of using, 1,125,158; 1,156,169
—, —, compound body of and, mfr. of, process for, 1,180,248; 1,180,249
—, —, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, iridium in, composite sheet of and made with, 1,130,077
—, —, sheet, corrosion resistant, made with, 1,144,106
—, iron, welding of using, 1,513,824
—, iron in, eliminating, 1,375,930
—, iron alloy, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, iridium in, composite sheet of and made with, 1,130,077
—, iron sheathed with, 1,270,871
—, isoprene made with apparatus of, 1,282,906
—, jewel (for measuring instruments), made with, 1,208,526
—, kerosene made with apparatus of, 1,282,906
—, ketones made with, 1,517,968
—, *lacquer for, see Lacquer*
—, lead in, 1,468,828
—, —, eliminating, 1,375,930
—, lead coated, mfr. of, antimony for, 1,501,293
—, —, —, hydrochloric acid for, 1,501,293
—, —, —, lead for, 1,501,293
—, —, —, nitric acid for, 1,501,293
—, —, —, phosphorus for, 1,501,293
—, —, —, phosphorus sulfide (P_4S_3), for, 1,501,293
—, —, —, phosphor-tin for, 1,501,293
—, —, —, process for, 1,501,293
—, —, —, sulfuric acid for, 1,501,293
—, —, —, zinc for, 1,501,293
—, —, —, zinc chloride for, 1,501,293
—, lead azide, action of on, 1,453,976
—, light, pulsations of, record of, made using diaphragm made of, 1,213,613; 1,213,614; 1,213,615
—, lightning arrester, electrode for, made with, 1,366,095; 1,488,936
—, lime, composition contg., coated with, process for, 1,258,282
—, magnetic material made with, 1,231,588
—, maleic acid made with, 1,517,968
—, malic acid made with, 1,517,968
—, manganese in, mfr. of, alloy, copper in for, 1,214,539
—, —, —, —, iron in for, 1,214,539
—, —, —, —, manganese in for, 1,214,539
—, —, —, —, phosphorus in, for, 1,214,539
—, —, —, copper in, alloy contg., for, 1,214,539
—, —, —, copper alloy, manganese in for, 1,214,539
—, —, —, ferro-manganese for, 1,214,539
—, —, —, iron in, alloy contg., for, 1,214,539
—, —, —, manganese for, 1,214,539
—, —, —, manganese in, alloy contg., for, 1,214,539
—, —, —, manganese, copper alloy contg., for, 1,214,539
—, —, —, phosphor copper for, 1,214,539
—, —, —, phosphorus in, alloy contg., for, 1,214,539
—, —, —, process for, 1,214,539
—, mfr. of, barium chloride for, 1,423,922
—, —, copper for, 1,198,618; 1,243,416; 1,252,887
—, —, phosphorus for, 1,252,887
—, —, process for, 1,198,618; 1,243,416; 1,252,887; 1,426,623
—, —, zinc for, 1,198,618; 1,243,416; 1,252,887
—, melting, electric furnace for, 1,337,305
—, —, furnace for, 1,328,714; 1,350,714

Brass, melting, iron alloy vessel for, 1,229,770
—, —, iron ladle for, 1,208,717
—, —, process for, 1,208,717
—, —, sodium chloride for, 1,208,717
—, —, steel ladle for, 1,208,717
—, mercury(ous) azide, action of on, 1,453,976
—, mercury fulminate, action of on, 1,453,976
—, metal, welding of using, 1,513,824
—, metals in, separating, process for, 1,452,813
—, metal plating, 1,397,514
—, mold, die casting, made with, 1,491,816
—, molded article made with, 1,506,061
—, nickel, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, iridium in, composite sheet of and made with, 1,130,077
—, nickel alloy, cobalt in, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, —, platinum, composite sheet of and made with, 1,130,077
—, —, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, —, iridium in, composite sheet of and made with, 1,130,077
—, nickel plated, cathode, water, sterilization of using, 1,200,165
—, oil, composition contg., coated with, process for, 1,258,282
—, olefin made with apparatus of, 1,282,906
—, oxalic acid made with, 1,517,968
—, papier-mache coated with, process for, 1,258,282
—, paper making machine roller made with, 1,239,895
—, paste board coated with process for, 1,258,282
—, permanganate treatment with of, 1,319,508
—, phonograph record, matrix for, mfr. of, made with, 1,194,795
—, phosphorus in, 1,252,887
—, phosphorus, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating with of, process for, 1,224,339
—, photographic prints on, production of, chamois for, 1,346,140; Re-15,103
—, —, —, charcoal for, 1,346,140; Re-15,103
—, —, —, cotton batting for, 1,346,140; Re-15,103
—, —, —, dyestuff for, 1,346,140; Re-15,103
—, —, —, lacquer for, 1,346,140; Re-15,103
—, —, —, process for, 1,346,140; Re-15,103
—, —, —, pumice for, 1,346,140; Re-15,103
—, pickling of, bichromate for, 1,206,220
—, —, bisulfate for, 1,206,220
—, —, chlorate for, 1,206,220
—, —, chromate for, 1,206,220
—, —, niter cake for, 1,206,220
—, —, nitrate for, 1,206,220
—, —, perchlorate for, 1,206,220
—, —, potassium bichromate for, 1,206,220
—, —, process for, 1,206,220
—, —, sodium bichromate for, 1,206,220
—, —, sodium bisulfate for, 1,206,220
Brass, pickling of, sulfuric acid for, 1,206,220
—, piperylene made with apparatus of, 1,282,906
—, pivet (for measuring instruments) made with, 1,208,526
—, platinum, cobalt, composite sheet of and made with, 1,130,077
—, —, cobalt alloy, nickel in, composite sheet of and made with, 1,130,077
—, —, iron, composite sheet of and made with, 1,130,077
—, —, iron alloy, composite sheet of and made with, 1,130,077
—, —, nickel, composite sheet of and made with, 1,130,077
—, —, nickel alloy, cobalt in, composite sheet of and made with, 1,130,077
—, —, steel, composite sheet of and made with, 1,130,077
—, —, steel alloy, composite sheet of and made with, 1,130,077
—, platinum alloy, cobalt, composite sheet of and made with, 1,130,077
—, —, cobalt alloy, nickel in, composite sheet of and made with, 1,130,077
—, —, iridium in, cobalt, composite sheet of and made with, 1,130,077
—, —, —, cobalt alloy, nickel in, composite sheet of and made with, 1,130,077
—, —, —, iron, composite sheet of and made with, 1,130,077
—, —, —, iron alloy, composite sheet of and made with, 1,130,077
—, —, —, nickel, composite sheet of and made with, 1,130,077
—, —, —, nickel alloy, cobalt in, composite sheet of and made with, 1,130,077
—, —, —, steel, composite sheet of and made with, 1,130,077
—, —, —, steel alloy, composite sheet of and made with, 1,130,077
—, —, iron, composite sheet of and made with, 1,130,077
—, —, iron alloy, composite sheet of and made with, 1,130,077
—, —, nickel, composite sheet of and made with, 1,130,077
—, —, nickel alloy, cobalt in, composite sheet of and made with, 1,130,077
—, —, steel, composite sheet of and made with, 1,130,077
—, —, steel alloy, composite sheet of and made with, 1,130,077
—, polish for, 1,253,353; 1,456,151
—, powdered, welding with, 1,441,094
—, printing plate made with, 1,377,503; 1,379,430; 1,379,434
—, propionaldehyde made with, 1,517,968
—, propionic acid made with, 1,517,968
—, propylene made with apparatus for, 1,282,906
—, quinones made with, 1,517,968
—, recovery of process for, 1,468,988
—, refining, flux for, 1,454,351
—, resin, artificial, made with, 1,517,968
—, —, composition contg., coated with, process for, 1,258,282
—, resistance, electric, made with, 1,366,095
—, resistance wire, electric, made with, 1,192,457

Brass, roller made with, 1,239,895
—, rubber trimmed with, vulcanization of rubber for, process for, 1,289,566
—, sandstone, calcareous coated with, process for, 1,258,282
—, sea-water, attack of on prevented, calcium bicarbonate for, 1,319,508
—, —, —, permanganate for, 1,319,508
—, —, —, process for, 1,319,508
—, selenium cell made with, 1,156,524
—, shot-gun shell contg., fiber impregnated with, 1,340,245
—, silicon, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating with of, process for, 1,224,339
—, silver coated, mfr. of, potassium bitartrate for, 1,208,507
—, —, —, potassium cyanide for, 1,208,507
—, —, —, potassium iodide for, 1,208,507
—, —, —, potassium silver cyanide for, 1,208,507
—, —, —, process for, 1,208,507
—, silver recovery from photographic baths with, 1,425,935
—, silver solder contg., 1,484,979
—, sodium, alloy (superficial) of and, mfr. of, process for, 1,224,339
—, —, coating with of, process for, 1,224,339
—, sodium carbonate as flux for, 1,309,165
—, solder made with, 1,281,126
—, solder for, mfr. of, process for, 1,252,010
—, soldering compound for, 1,245,862
—, soldering flux for, 1,324,892
—, sound record, made using diaphragm made of, 1,213,613; 1,213,614; 1,213,615
—, sound reproducing diaphragm of, coating, 1,459,803
—, steel coated with, 1,125,158
—, steel, coating of using, 1,156,169
—, —, compound body of and, mfr. of, process for, 1,180,248; 1,180,249
—, —, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, platinum alloy, iridium in, composite sheet of and made with, 1,130,077
—, —, welding of using, 1,513,824
—, steel alloy, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, iridium in, composite sheet of and made with, 1,130,077
—, steel tube coated with, mfr. of, apparatus for, 1,125,159
—, —, —, borax for, 1,125,159
—, —, —, calcium chloride for, 1,125,159
—, —, —, cryolite for, 1,125,159
—, —, —, fluorspar for, 1,125,159
—, —, —, iron oxide (Fe_3O_4), for, 1,125,159
—, —, —, process for, 1,125,159
—, —, —, producer gas for, 1,125,159
—, —, —, sodium chloride for, 1,125,159
Brass, steel tube coated with, mfr. of, sodium silicate for, 1,125,159
—, —, —, water gas for, 1,125,159
—, stone, artificial, coated with, process for, 1,258,282
—, stone coated with, graphite for, 1,258,282
—, —, process for, 1,258,282
—, stone dye to resemble turquoise with, 1,316,227
—, substitute for, iron-copper alloy as, 1,455,589
—, succinic acid made with, 1,517,968
—, sulfur, alloy (superficial), of and, mfr. of, process for, 1,224,339
—, —, coating with of, process for, 1,224,339
—, tarnish prevented of, alcohol, denatured, for, 1,146,336
—, —, amyl acetate in composition for, 1,146,336
—, —, cedar oil in composition for, 1,146,336
—, —, celluloid in composition for, 1,146,336
—, telephone transmitter made with, 1,366,095
—, thermopile made with, 1,127,424
—, thermostatic acid made with, 1,250,612; 1,250,862
—, tinning, 1,431,395
—, tin-plating, electrolytically, 1,426,678
—, treatment of, copper alloy, magnesium in, for, 1,151,744
—, —, —, titanium in, for, 1,151,744
—, —, cupro-titanium for, 1,151,744
—, —, process for, 1,151,744
—, valve seat made of, 1,123,225
—, water, filter for contg., 1,276,129
—, welding of, apparatus for, 1,176,614
—, —, electric, process for, 1,134,007
—, —, molybdenum electrode for, 1,176,614
—, —, process for, 1,126,655; 1,176,614
—, —, tungsten electrode for, 1,176,614
—, well torpedo made with, 1,511,488
—, yellow, solder contg., 1,301,633
—, zinc in, 1,252,887; 1,326,775; 1,468,828
—, —, eliminating, 1,375,930
—, zinc, alloy (superficial) of and, mfr. of, apparatus for, 1,224,340
—, —, —, —, process for, 1,224,339; 1,224,340
—, —, coating with of, apparatus for, 1,224,340
—, —, —, process for, 1,224,339; 1,224,340
—, zinc sulfate made with, 1,468,988
—, *see also Alloy; Copper alloy; Copper alloy, zinc in; Zinc, copper alloy contg.; Zinc alloy*
Brass alloy, solder made with, 1,281,126
Brass article, filling for joints of, mfr. of, alum for, 1,223,458
—, —, —, aluminum bronze powder for, 1,223,458
—, —, —, barite for, 1,223,458
—, —, —, barium sulfate for, 1,223,458
—, —, —, borax for, 1,223,458
—, —, —, process for, 1,223,458
—, —, —, varnish for, 1,223,458
—, —, —, whiting for, 1,223,458
Brass castings, voids in, cement for filling, 1,359,137
Brass cement, brass grindings in, 1,359,137
—, formula, aluminum oxide, zinc oxide, phosphoric acid, 1,359,137

Brass cement, formula, aluminum phosphate and zinc oxide, 1,359,137
—, —, calcium oxide and phosphoric acid, 1,359,137
—, —, magnesium oxide and phosphoric acid, 1,359,137
Brass electrode, ammonia made with, 1,256,875
—, silicic acid made with, 1,132,394
Brass filings, brick, surfacing of using, 1,513,620
—, building material, surfacing of using, 1,513,620
—, plaster, surfacing of using, 1,513,620
—, tile made with, 1,513,620
—, tile, surfacing of using, 1,513,620
Brass gauze, battery, dry, electric connector for made with, 1,193,764
—, brush, electric, made with, 1,228,484
—, ozone made with, 1,218,817
Brass grindings, brass cement contg., 1,359,137
Brassica rapa L, peroxidase made with, 1,324,752
Brass mandrel, copper sheet made with, 1,282,261
—, copper tubing made with, 1,282,261
Brass plate, printing plate, halftone, made with, 1,507,049
Brass powder, protecting coating of, beeswax in composition for, 1,181,889
—, —, benzene in composition for, 1,181,889
—, —, benzine in composition for, 1,181,889
—, —, carnauba wax in composition for, 1,181,889
—, —, olive oil in composition for, 1,181,889
—, —, resin in composition for, 1,181,889
—, —, turpentine in composition for, 1,181,889
—, —, wax in composition for, 1,181,889
—, transfer metallic product made with, 1,515,722
Brass roller, iron, lead, coating with of, using, 1,161,475
—, —, lead alloy, coating with of, using, 1,161,475
—, lead, iron coated with, using, 1,161,475
—, lead alloy, iron coated with, using, 1,161,475
Brass sand blasting, hollow article made with, 1,506,061; 1,506,062
—, molded article made with, 1,506,061; 1,506,062
Brass scrap, briquetting of, cellulose sulfite liquor for, 1,517,055
—, —, process for, 1,517,055
—, iron-borosilicate for agglomerating, 1,381,748
—, melting apparatus for, 1,370,090
—, refining, 1,454,351
—, treating of, 1,375,930; 1,402,015
—, —, chlorine for, 1,375,930
—, —, copper(ic) chloride for, 1,375,930
—, —, hydrochloric acid for, 1,375,930
Brass slag, copper in recovery of from, 1,309,165
Brass solution, aluminum, zinc plated, made using, 1,147,718
Brass strip, film, motion picture, made with, 1,361,783
Brass substitute, copper in, 1,277,989; 1,279,448
—, iron in, 1,277,989
Brass substitute, lead in, 1,277,989
—, manganese in, 1,279,448
—, mfr. of, antimony sulfide for, 1,138,845
—, —, copper for, 1,138,845
—, —, lead for, 1,138,845
—, —, process for, 1,138,845
—, —, tin for, 1,138,845
—, nickel in, 1,277,989; 1,279,448
—, phosphorus in, 1,277,989
—, zinc in, 1,277,989
Brass tube, heat treatment of, apparatus for, 1,474,953
Brass tubing, annealing of, 1,292,352
—, mfr. of, apparatus for, 1,223,282
—, —, process for, 1,223,282
—, phonograph needle made with, 1,246,694
Brass ware, mending cement for, mfr. of, process for, 1,269,116
Brass wire, brake shoe made with, 1,242,069
—, packing made with, 1,151,344
Brass wire netting, airplane covering material made with, 1,243,041; 1,243,654; 1,243,655
—, balloon covering material made with, 1,243,041; 1,243,654; 1,243,655
Brass wool, soap contg., 1,328,898
Braunite, ferro-manganeses made with, 1,480,267
—, manganese made with, 1,480,267
—, manganese alloy made with, 1,480,267
—, *see also Manganese ore; Manganese oxide*
Brazilian copal, see Copal, Brazilian
Brazilian resin, insulating-varnish made with, 1,149,171
—, insulation, electric, made with, 1,149,171
Brazilian sugar, see Sugar, Brazilian
Brazil nuts, food made with, 1,410,973
—, food product contg., 1,415,893
—, shelling of, process for, 1,448,520
—, treating of, apparatus for, 1,448,520
—, —, process for, 1,448,520
Brazil nut oil, hydrogenating, 1,446,004
Brazil nut shells, case hardening using, 1,343,359
—, charred, carbonizing steel with, 1,343,359
Brazil wax, see Carnauba wax
Brazil wood extract, aluminum sulfate, composition contg., and, 1,273,293
—, copper sulfate composition contg., and, 1,273,293
—, cotton dyed with, 1,273,293
—, iron sulfate, composition contg., and, 1,273,293
—, mordant, composition contg., and, 1,273,293
—, silk dyed with, 1,273,293
—, sodium carbonate, composition contg., and, 1,273,293
—, wool dyed with, 1,273,293
Brazing, flux for, see Brazing flux
—, method of, 1,455,307
Brazing compound, formula, slaked lime, sand, borax, iron filings, 1,349,966
Brazing flux, mfr. of, alumina for, 1,502,144
—, —, aluminum for, 1,502,144
—, —, borax for, 1,275,412; 1,502,144
—, —, calcium hydroxide for, 1,502,144
—, —, cochineal for, 1,502,144

Brazing flux, mfr. of., gold chloride for, 1,275,412
—, —, potassium chlorate for, 1,502,144
—, —, potassium perchlorate for, 1,502,144
—, —, process for, 1,428,088; 1,502,144
—, —, soda ash for, 1,275,412
—, —, sodium carbonate for, 1,275,412
—, —, sodium chloride for, 1,275,412
Brazing material, mfr. of, boric acid for, 1,215,138
—, —, cadmium for, 1,215,138
—, —, cadmium alloy for, 1,215,138
—, —, copper for, 1,215,138
—, —, process for, 1,215,138
—, —, silver for, 1,215,138
—, —, silver, sterling, for, 1,215,138
—, —, silver alloy for, 1,215,138
—, —, sodium phosphate (Na_2HPO_4), for, 1,215,138
—, *see also Solder; Flux*
Bread, amyl butyrate, flavoring with of, 1,155,530
—, baking of, alcohol recovered from, 1,314,082
—, barley, mfr. of, process for, 1,264,876
—, bean, mfr. of, process for, 1,264,876
—, bran, mfr. of, acetic acid for, 1,148,815
—, —, —, process for, 1,148,815
—, —, —, sodium chloride for, 1,148,815
—, —, —, sugar for, 1,148,815
—, —, —, vinegar for, 1,148,815
—, —, —, wheat bran for, 1,148,815
—, —, —, wheat flour for, 1,148,815
—, —, —, wheat germ for, 1,148,815
—, —, —, yeast for, 1,148,815
—, buckwheat, mfr. of, process for, 1,264,876
—, calcium peroxide in, 1,370,354
—, carbon dioxide, saturation with of, 1,155,530
—, carrot, mfr. of, process for, 1,264,876
—, cassava, mfr. of, process for, 1,264,876
—, cereal, mfr. of, process for, 1,264,876
—, cold for increasing yield of from flour, 1,372,842
—, concentrated, mfr. of, 1,293,772
—, flour for, bran in, 1,271,139
—, —, corn meal in, 1,271,139
—, —, rye flour in, 1,271,139
—, —, shorts in, 1,271,139
—, —, wheat flour in, 1,271,139
—, —, wheat flour, whole, in, 1,271,139
—, food product made with, 1,160,783
—, germ, mfr. of, acetic acid for, 1,148,815
—, —, —, process for, 1,148,815
—, —, —, sodium chloride for, 1,148,815
—, —, —, sugar for, 1,148,815
—, —, —, vinegar for, 1,148,815
—, —, —, wheat bran for, 1,148,815
—, —, —, wheat flour for, 1,148,815
—, —, —, wheat germ for, 1,148,815
—, —, —, yeast for, 1,148,815
—, keeping qualities of, improving, peroxides for, 1,385,842
—, lanolin in, 1,345,680
—, laxative, mfr. of, eggs for, 1,303,724
—, —, —, milk for, 1,303,724
—, —, —, prepared flour for, 1,303,724
—, —, —, yeast for, 1,303,724
—, maize, mfr. of, process for, 1,264,876
—, mfr. of, acetic acid for, 1,356,127
Bread, mfr. of, acid, organic, for, 1,131,698
—, —, air for, 1,203,361
—, —, alkali bromate for, 1,148,328
—, —, alkali iodate for, 1,148,328; 1,148,329
—, —, alkali phosphate, tribasic, for, 1,179,877
—, —, alkali sulfates in, 1,300,604
—, —, alum for, 1,215,995
—, —, ammonium bitartrate for, 1,158,933
—, —, ammonium carbonate for, 1,190,827
—, —, ammonium chloride for, 1,151,526; 1,158,933; 1,213,210; 1,325,327
—, —, ammonium hydroxide for, 1,190,827
—, —, ammonium iodate for, 1,148,328; 1,148,329
—, —, ammonium lactate for, 1,190,827
—, —, ammonium phosphate for, 1,500,545
—, —, ammonium salts for, 1,148,328; 1,158,933; 1,242,396; 1,325,327
—, —, ammonium tartrate for, 1,131,698
—, —, amylase for, 1,355,128; 1,355,129
—, —, apparatus for, 1,143,413; 1,213,627; 1,255,293; 1,506,831
—, —, Arkady for, 1,502,888
—, —, arrow-root for, 1,215,995
—, —, *Aspergillus oryzae* for, 1,325,327
—, —, bacteria, *B. mesenterious vulgatus*, for, 1,222,304
—, —, —, *B. mycoides* for, 1,222,304
—, —, —, *B. subtilis*, for, 1,222,304
—, —, —, lactic acid, for, 1,179,877; 1,190,827; 1,355,128
—, —, barley malt for, 1,226,347; 1,262,506; 1,355,128; 1,355,129
—, —, barley sprouts for, 1,355,128; 1,355,129
—, —, beans for, 1,222,304
—, —, blood serum for, 1,277,336
—, —, bran for, 1,190,827; 1,474,746
—, —, brewers grain for, 1,269,754
—, —, bromates for, 1,148,328
—, —, bromelin for, 1,179,877
—, —, bromic acid for, 1,148,328
—, —, butter for, 1,224,492; 1,323,367; 1,326,276
—, —, buttermilk for, 1,222,304; 1,500,545
—, —, buttermilk, evaporated, for, 1,170,474
—, —, —, powdered, for, 1,493,685
—, —, calcium carbonate for, 1,190,827; 1,474,746
—, —, calcium chloride for, 1,213,210
—, —, calcium hydroxide for, 1,190,827
—, —, calcium hypochloride for, 1,131,698
—, —, calcium iodate for, 1,148,328; 1,148,329
—, —, calcium lactate for, 1,190,827
—, —, calcium oxide for, 1,190,827
—, —, calcium phosphate for, 1,191,047
—, —, calcium phosphate ($Ca(H_2PO_4)_2$), for, 1,282,868
—, —, —, ($CaH_4(PO_4)_2$), for, 1,210,940; 1,497,477
—, —, —, ($CaH_4P_2O_8$), for, 1,158,933; 1,158,934
—, —, —, acid, for, 1,474,746; 1,500,545
—, —, calcium salts for, 1,148,328; 1,158,933; 1,158,934; 1,242,396; 1,282,863; 1,325,327; 1,502,888
—, —, calcium sulfate for, 1,151,526; 1,158,933; 1,158,934; 1,242,396; 1,282,868; 1,325,327; 1,474,746; 1,502,888
—, —, carbon dioxide for, 1,502,563
—, —, casein for, 1,222,304
—, —, cereal for, 1,190,827

Bread, mfr. of, cheese for, 1,222,304
—, —, citrate for, 1,272,220
—, —, cocoa for, 1,505,236
—, —, cocoanut butter for, 1,277,336
—, —, cocoanut press cake for, 1,222,304
—, —, composition for use in, 1,355,127; 1,355,128; 1,355,129
—, —, controlling, hydrogen ion determination for, 1,429,526
—, —, corn for, 1,274,898; 1,325,327; 1,355,128
—, —, corn croppings for, 1,247,349
—, —, corn flakes for, 1,247,349; 1,269,754
—, —, corn flour, 1,215,995; 1,226,347; 1,262,506; 1,272,220
—, —, corn germs for, 1,474,746
—, —, corn grits for, 1,247,349; 1,269,754
—, —, corn meal for, 1,247,349; 1,272,220
—, —, corn starch for, 1,247,349; 1,272,220
—, —, cotton seed flour for, 1,276,477
—, —, cotton seed oil for, 1,204,280; 1,204,281; 1,210,940; 1,242,883; 1,323,367; 1,326,276
—, —, cotton seed oil, hydrogenated, for, 1,204,280; 1,204,281; 1,210,940; 1,242,883; 1,323,367; 1,326,276
—, —, dextrin for, 1,355,127; 1,355,128; 1,355,129
—, —, dextrose for, 1,210,588; 1,232,758; 1,247,349; 1,355,127; 1,355,128; 1,355,129
—, —, disastase for, 1,247,349; 1,262,506; 1,355,127; 1,355,128; 1,355,129
—, —, enzyme for, 1,355,128
—, —, enzyme, diastatic, for, 1,274,898; 1,325,327
—, —, —, proteolytic, for, 1,179,877; 1,274,898; 1,325,327; 1,355,127
—, —, farina for, 1,232,758
—, —, fat for, 1,277,336; 1,493,685
—, —, fat, hard, in, 1,323,367
—, —, ferment, diastatic, for, 1,474,746
—, —, —, proteolytic, for, 1,474,746
—, —, flour for, 1,151,526; 1,152,087; 1,158,933; 1,158,934; 1,170,474; 1,178,459; 1,179,877; 1,191,047; 1,204,280; 1,204,281; 1,210,588; 1,215,995; 1,226,347; 1,232,758; 1,242,883; 1,274,898; 1,277,336; 1,282,868; 1,300,604; 1,323,367; 1,325,327; 1,326,276; 1,355,127; 1,355,128; 1,355,129; 1,474,746; 1,493,685; 1,500,545; 1,502,888
—, —, fructose for, 1,355,129
—, —, fungus for, 1,274,898
—, —, fungus, *Aspergillus genus,* for, 1,274,898
—, —, —, *Aspergillus oryzae,* for, 1,274,898
—, —, gelatin for, 1,493,685
—, —, glucose for, 1,355,129
—, —, glutamic acid hydrochloride for, 1,222,304
—, —, gluten for, 1,502,888
—, —, graham flour for, 1,148,328; 1,148,329
—, —, grain for, 1,226,347
—, —, grain, germinated, for, 1,235,420
—, —, —, malted, for, 1,355,127
—, —, —, whole, for, 1,167,703
—, —, "grain wine" for, 1,226,347
—, —, hominy for, 1,232,758; 1,274,898
—, —, honey for, 1,505,236
—, —, hydrochloric acid for, 1,131,698; 1,355,127
—, —, hydrogen dioxide for, 1,225,877; 1,225,878
—, —, iodates for, 1,148,328; 1,148,329
Bread, mfr. of, iodic acid for, 1,148,328, 1,148,329
—, —, lactic acid for, 1,131,698; 1,170,474; 1,179,877; 1,191,047; 1,247,349; 1,355,127; 1,500,545
—, —, lard for, 1,214,160; 1,224,492; 1,226,347; 1,258,793; 1,323,367; 1,326,276; 1,474,746; 1,500,545; 1,502,888
—, —, lecithin for, 1,277,336
—, —, levulose for, 1,355,129
—, —, lime for, 1,242,396
—, —, magnesium carbonate for, 1,190,827
—, —, magnesium hydroxide for, 1,190,827
—, —, magnesium lactate for, 1,190,827
—, —, magnesium oxide for, 1,190,827
—, —, magnesium phosphate for, 1,191,047
—, —, magnesium salts for, 1,242,396
—, —, malt for, 1,190,827; 1,247,349; 1,493,685; 1,500,545; 1,502,888
—, —, malt extract for, 1,190,827; 1,247,349; 1,474,746
—, —, maltose for, 1,214,160; 1,247,349; 1,269,754; 1,355,127; 1,355,128; 1,355,129; 1,505,236
—, —, malt peptase for, 1,179,877
—, —, malt sprouts for, 1,247,349
—, —, mazam for, 1,247,349
—, —, milk for, 1,158,933; 1,158,934; 1,204,280; 1,204,281; 1,122,304; 1,242,883; 1,274,898; 1,323,367; 1,326,276; 1,474,746; 1,500,545; 1,502,888
—, —, milk, evaporated, for, 1,170,474
—, —, milk powder for, 1,152,087; 1,474,746
—, —, nitrogen tetroxide for, 1,143,413
—, —, oil for, 1,277,336
—, —, oil, animal, for, 1,204,280; 1,204,281; 1,323,367
—, —, —, —, hydrogenated for, 1,204,280; 1,204,281; 1,242,883; 1,326,276
—, —, —, hydrogenated, in, 1,323,367
—, —, —, vegetable, for, 1,204,280; 1,204,281; 1,210,940; 1,242,883; 1,323,367; 1,474,746
—, —, —, —, hydrogenated, for, 1,204,280; 1,204,281; 1,242,883; 1,326,276
—, —, oleo oil for, 1,474,746
—, —, oleo-stearin for, 1,204,280; 1,204,281; 1,242,883; 1,323,367; 1,326,276
—, —, oxygen for, 1,143,413; 1,203,361
—, —, ozone for, 1,225,877; 1,225,878
—, —, papain for, 1,179,877
—, —, peas for, 1,222,304
—, —, pea bran for, 1,247,349
—, —, peanuts for, 1,505,236
—, —, peanut butter for, 1,277,336
—, —, pepsin for, 1,179,877; 1,500,545
—, —, phosphates for, 1,190,827; 1,242,396
—, —, phosphoric acid for, 1,500,545
—, —, potassium bitartrate for, 1,272,220
—, —, potassium bromate for, 1,148,328; 1,151,526; 1,213,210; 1,325,327; 1,497,477
—, —, potassium iodate for, 1,148,328; 1,148,329
—, —, potassium persulfate for, 1,497,477
—, —, potassium phosphate for, 1,191,047
—, —, potassium salts for, 1,190,827; 1,242,396; 1,502,888

Bread, mfr. of, potato flour for, 1,277,336
—, —, process for, 1,131,698; 1,143,413; 1,148,328; 1,148,329; 1,151,526; 1,152,087; 1,155,530; 1,158,933; 1,158,934; 1,167,703; 1,170,474; 1,177,345; 1,178,459; 1,179,877; 1,190,827; 1,191,047; 1,203,361; 1,204,280; 1,204,281; 1,210,588; 1,210,940; 1,213,210; 1,213,627; 1,214,160; 1,215,995; 1,222,304; 1,224,492; 1,225,877; 1,225,878; 1,226,347; 1,232,758; 1,235,420; 1,242,396; 1,242,883; 1,247,349; 1,251,044; 1,255,292; 1,255,293; 1,258,793; 1,262,506; 1,269,754; 1,272,220; 1,274,898; 1,277,336; 1,303,724; 1,326,276; 1,355,127; 1,355,128; 1,355,129; 1,387,387; 1,431,525; 1,438,441; 1,447,054; 1,450,483; 1,474,746; 1,493,685; 1,497,477; 1,500,545; 1,502,563; 1,502,888; 1,505,236; 1,506,831
—, —, protease for, 1,355,127; 1,355,128
—, —, protein for, 1,474,746
—, —, raisins for, 1,505,236
—, —, rice for, 1,247,349; 1,269,754
—, —, rice flour for, 1,226,347; 1,247,349
—, —, rice meal for, 1,247,349
—, —, rice polishings for, 1,474,746
—, —, rye for, 1,167,703; 1,213,627; 1,255,292; 1,255,293
—, —, rye, germinated, for, 1,167,703
—, —, rye bran for, 1,247,349
—, —, rye flour for, 1,148,328; 1,148,329
—, —, rye malt for, 1,355,128; 1,355,129
—, —, rye malt dough for, 1,178,459
—, —, saccharose for, 1,247,349
—, —, shortening for, 1,232,758
—, —, sodium bicarbonate for, 1,170,474; 1,210,940
—, —, sodium bromate for, 1,148,328; 1,497,477
—, —, sodium chloride for, 1,151,526; 1,158,933; 1,158,934; 1,170,474; 1,177,345; 1,178,459; 1,179,877; 1,191,047; 1,204,280; 1,204,281; 1,210,940; 1,214,160; 1,222,304; 1,224,492; 1,226,347; 1,232,758; 1,242,883; 1,255,293; 1,258,793; 1,272,220; 1,274,898; 1,323,367; 1,325,327; 1,326,276; 1,355,127; 1,355,128; 1,355,129; 1,474,746; 1,500,545; 1,502,888
—, —, sodium iodate for, 1,148,328; 1,148,329
—, —, sodium phosphate (NaH_2PO_4), for, 1,210,940
—, —, sodium salts for, 1,502,888
—, —, starch for, 1,170,474; 1,215,995; 1,247,349; 1,493,685
—, —, starch, gelatinized, for, 1,210,588; 1,232,758; 1,262,506
—, —, steam for, 1,225,877; 1,225,878
—, —, sucrose for, 1,355,129; 1,505,236
—, —, sugar for, 1,158,933; 1,158,934; 1,170,474; 1,179,877; 1,190,827; 1,214,160; 1,215,995; 1,224,492; 1,226,347; 1,232,758; 1,247,349; 1,255,293; 1,258,793; 1,272,220; 1,274,898; 1,474,746; 1,493,685; 1,500,545; 1,502,888; 1,505,236
—, —, sugar, cane, for, 1,262,506; 1,355,127; 1,355,128
—, —, —, invert, for, 1,355,129
—, —, sulfuric acid for, 1,131,698
—, —, sunflower seed oil for, 1,277,336
—, —, tartaric acid for, 1,131,698; 1,272,220
—, —, tubers for, 1,225,877; 1,225,878
Bread, mfr. of, vitamine A for, 1,474,746
—, —, vitamine B for, 1,474,746
—, —, vitamine C, antiscorbutic, for, 1,474,746
—, —, water for, 1,152,087; 1,158,933; 1,158,934; 1,179,877; 1,204,280; 1,204,281; 1,225,877; 1,225,878; 1,242,396; 1,474,746
—, —, water, mineral, for, 1,213,210
—, —, wheat for, 1,167,703; 1,255,292; 1,255,293
—, —, wheat, germinated, for, 1,167,703
—, —, wheat bran for, 1,179,877; 1,247,349
—, —, wheat flour for, 1,203,361; 1,214,160; 1,224,492; 1,226,347; 1,247,349; 1,258,793; 1,262,506; 1,272,220; 1,505,236
—, —, wheat flour, bleached, for, 1,131,698
—, —, —, hard, for, 1,148,328; 1,148,329
—, —, wheat germs for, 1,474,746
—, —, whole grain for, 1,213,627
—, —, wort for, 1,269,754; 1,355,127
—, —, yeast for, 1,148,328; 1,148,329; 1,151,526; 1,152,087; 1,158,933; 1,158,934; 1,178,459; 1,179,877; 1,191,047; 1,203,361; 1,204,280; 1,204,281; 1,214,160; 1,222,304; 1,224,492; 1,232,758; 1,242,396; 1,242,883; 1,247,349; 1,255,293; 1,258,793; 1,262,506; 1,269,754; 1,272,220; 1,274,898; 1,323,367; 1,326,276; 1,355,127; 1,355,128; 1,355,129; 1,474,746; 1,493,685; 1,500,545; 1,502,888
—, —, yeast food for, 1,190,827; 1,213,210
—, —, yeast substitute for, 1,226,347
—, —, *see also Baking powder; Shortening*
—, media contg., 1,400,374
—, mice, killing of with composition contg., 1,178,941
—, nut flour in, 1,349,753
—, oat, mfr. of, process for, 1,264,876
—, paper, paraffined, made for wrapping of loaves of, 1,171,461
—, pea, mfr. of, process for, 1,264,876
—, peanut flour in, 1,349,753
—, peroxides used in mfr. of, 1,385,842
—, potatoes in, 1,376,334
—, potato, mfr. of, process for, 1,264,876
—, rats, killing of with composition contg., 1,178,941
—, rice, mfr. of, process for, 1,264,876
—, rye, mfr. of, malt for, 1,235,330
—, —, —, process for, 1,235,330; 1,264,876
—, —, —, rye flour for, 1,235,330
—, —, —, yeast for, 1,235,330
—, salt-rising, mfr. of, bacteria for, 1,149,839
—, —, —, calcium carbonate for, 1,149,839
—, —, —, corn meal for, 1,149,839
—, —, —, flour for, 1,149,839
—, —, —, lard for, 1,149,839
—, —, —, leaven for, 1,149,839
—, —, —, milk for, 1,149,839
—, —, —, process for, 1,149,839
—, —, —, sodium bicarbonate for, 1,149,839
—, —, —, sodium chloride for, 1,149,839
—, —, —, wheat flour for, 1,149,839
—, soya bean flour, dicalcium hydrogen phosphate, salt, butter, yeast, and flour in, 1,356,988
—, stale, freshening of, apparatus for, 1,152,241
—, —, —, process for, 1,152,241
—, —, —, steam for, 1,152,241
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—, sterilization of, aluminum for, 1,200,651
—, —, cardboard for, 1,200,651
—, —, celluloid for, 1,200,651
—, —, glass for, 1,200,651
—, —, metal for, 1,200,651
—, —, mica for, 1,200,651
—, —, paper for, 1,200,651
—, —, paper, macerated, for, 1,200,651
—, —, —, metallic, for, 1,200,651
—, —, —, waterproof, for, 1,200,651
—, —, parchment for, 1,200,651
—, —, process for, 1,200,651
—, —, strawboard for ,1,200,651
—, —, tin plate for, 1,200,651
—, —, wood pulp for, 1,200,651
—, turnip, mfr. of, process for, 1,264,876
—, vermin, killing of with composition contg., 1,178,941
—, vitamine in, mfr. of, 1,450,483
—, vitamine-contg., mfr. of, 1,431,525
—, vitamine-rich, mfr. of, 1,438,441
—, whole-wheat, mfr. of, butter-milk for, 1,254,494
—, —, —, cotton seed oil for, 1,254,494
—, —, —, flour for, 1,254,494
—, —, —, milk-sour for, 1,254,494
—, —, —, oil, vegetable, for, 1,254,494
—, —, —, olive oil for, 1,254,494
—, —, —, process for, 1,254,494; 1,255,292; 1,255,293; 1,264,876
—, —, —, sodium chloride for, 1,254,494
—, —, —, sugar for, 1,254,494
—, —, —, yeast for, 1,254,494
—, wrapper for, mfr. of, paper, rice, for, 1,168,254
—, —, —, —, tissue, for, 1,168,254
—, —, —, paraffin for, 1,168,254
—, —, —, process for, 1,168,254
—, yield of, increasing, cold for, 1,372,842
—, *see also Dough; Flour; Food product*
Breadcrumbs, food product made with, 1,240,165
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Breakfast food, barley, mfr. of, process for, 1,264,876
—, bean, mfr. of, process for, 1,264,876
—, buckwheat, mfr. of, process for, 1,264,876
—, carrot, mfr. of, process for, 1,264,876
—, cassava, mfr. of, process for, 1,264,876
—, cereal, mfr. of, process for, 1,264,876
—, maize, mfr. of, process for, 1,264,876
—, mfr. of, corn flour for, 1,129,440
—, —, process for, 1,129,440
—, —, starch, pebble-like, for, 1,129,440
—, oat, mfr. of, process for, 1,264,876
—, pea, mfr. of, process for, 1,264,876
—, potato, mfr. of, process for, 1,264,876
—, rice, mfr. of, process for, 1,264,876
—, —, popped, as, 1,266,448
—, rye, mfr. of, process for, 1,264,876
—, turnip, mfr. of, process for, 1,264,876
—, wheat, whole, mfr. of, process for, 1,264,876
—, *see also Food product*
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—, —, —, iron turnings for, 1,235,071
Breaking engine, metal for, mfr. of, magnesium carbonate for, 1,235,071
—, —, —, process for, 1,235,071
Breccia, see Rock
—, *andesitic tufaceous, see Andeistic tufaceous breccia*
—, *tuffaceous, see Tuffaceous breccia*
Breech block, gas check pad for, mfr. of, asbestos for, 1,229,662
—, —, —, benzine for, 1,229,662
—, —, —, calcium hydroxide for, 1,229,662
—, —, —, ceresin for, 1,229,662
—, —, —, coal tar for, 1,229,662
—, —, —, colza oil for, 1,229,662
—, —, —, gasolene for, 1,229,662
—, —, —, grease for, 1,229,662
—, —, —, oil for, 1,229,662
—, —, —, paraffin for, 1,229,662
—, —, —, petroleum for, 1,229,662
—, —, —, petroleum ether for, 1,229,662
—, —, —, petroleum spirit for, 1,229,662
—, —, —, process for, 1,229,662
—, —, —, shale tar for, 1,229,662
—, —, —, soap for, 1,229,662
—, —, —, soap, barium, for, 1,229,662
—, —, —, —, calcium, for, 1,229,662
—, —, —, —, lead for, 1,229,662
—, —, —, —, magnesium, for, 1,229,662
—, —, —, —, potassium, for, 1,229,662
—, —, —, —, sodium, for, 1,229,662
—, —, —, —, zinc, for, 1,229,662
—, —, —, sodium carbonate for, 1,229,662
—, —, —, tallow for, 1,229,662
—, —, —, vaseline for, 1,229,662
—, —, —, wax for, 1,229,662
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Brenzcatechin, see Pyrocatechol
Brenzkatechin, see Pyrocatechol
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—, beverage, non-alcoholic, made with, 1,262,472
Brewers grain, bread made with, 1,269,754
—, cattle feed contg., 1,260,327
—, drying of, process for, 1,204,845
Brewery slop, butyric acid from, 1,405,055
Brewing, corn grits for, 1,186,894
—, corn meal for, 1,186,894
—, dextrin for, 1,186,894
—, glucose for, 1,186,894
—, process for, 1,146,793; 1,186,894
—, residues from, fungi grown on, 1,391,219
—, rice grits for, 1,186,894
—, rice meal for, 1,186,894
—, starch for, 1,186,894
—, starch product made for use in, 1,175,113; 1,175,114; 1,186,894
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Briar root substitute, tobacco pipe made with, 1,455,396
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Brick, alloy coated, mfr. of, process for, 1,258,282

Brick, aluminum coated, mfr. of, process for, 1,258,282
—, aluminum oxide in, 1,256,042
—, artificial, cutting of, air for, 1,494,003
—, —, —, apparatus for, 1,494,003
—, —, —, borax for, 1,494,003
—, —, —, coal for, 1,494,003
—, —, —, iron for, 1,494,003
—, —, —, iron(ic) oxide for, 1,494,003
—, —, —, metal for, 1,494,003
—, —, —, oxygen for, 1,494,003
—, —, —, process for, 1,494,003
—, —, —, sodium carbonate for, 1,494,003
—, —, —, sodium chloride for, 1,494,003
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—, asbestos shingle made with, 1,244,148
—, asphalt in, 1,269,649
—, asphalt, impregnation with of, apparatus for, 1,176,284
—, —, —, process for, 1,176,284
—, asphalt impregnated, mfr. of, process for, 1,261,114
—, asphaltum, artificial, colored, with, 1,465,317
—, bitumen, impregnation with of, apparatus for, 1,176,284
—, —, —, process for, 1,176,284
—, brass coated, mfr. of, process for, 1,258,282
—, bronze coated, mfr. of, process for, 1,258,282
—, burning of, apparatus for, 1,175,246; 1,175,247; 1,239,189
—, —, process for, 1,175,246; 1,175,247; 1,239,189
—, calcium carbonate in, 1,256,042
—, carbon, mfr. of, 1,439,510
—, catalyst, hydrocarbon cracked using, 1,229,098
—, catalyst in oil cracking, 1,386,768
—, cement in, 1,269,649
—, chamotte, case hardening process using, 1,247,863
—, —, furnaces, lining of using, 1,517,820
—, coating of, amyl acetate for, 1,195,978
—, —, apparatus for, 1,195,978
—, —, carbon for, 1,195,978
—, —, clay, china, for, 1,195,978
—, —, cresol for, 1,160,363
—, —, enamel for, 1,195,978
—, —, formaldehyde for, 1,160,363
—, —, glass for, 1,195,978
—, —, glucose for, 1,195,978
—, —, graphite for, 1,195,978
—, —, metal oxide for, 1,195,978
—, —, oil for, 1,195,978
—, —, phenol for, 1,160,363
—, —, phenol aldehyde condensate for, 1,160,363
—, —, process for, 1,160,363; 1,195,978
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—, —, —, calcium hydroxide for, 1,314,772
—, —, —, cement, Portland, for, 1,314,772
—, —, —, cork for, 1,314,772
—, —, —, diatomaceous for, 1,314,772
—, —, —, rice polishing for, 1,314,772
—, —, —, sand for, 1,314,772
—, —, —, sawdust for, 1,314,772
—, composition for, 1,385,757
—, composition of, silica, calcium oxide, magnesium oxide, sulfur, 1,390,038
—, copper coated, mfr. of, process for, 1,258,282
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—, crushed, wall, sound absorbing, made with, 1,197,956; Re-14,992
—, dammar coating for, 1,302,252
—, diatomaceous, mortar for laying, 1,421,192
—, drying of, apparatus for, 1,221,383
—, dust of, brick composition contg., 1,385,757
—, ferromanganese flux of, 1,421,218
—, fire-, acetaldehyde, catalyst for the mfr. of, made with, 1,487,020
—, —, anthraquinone, catalyst for the mfr. of, made with, 1,487,020
—, —, benzaldehyde, catalyst for the mfr. of, made with, 1,487,020
—, —, benzene, catalyst for the mfr. of, made with, 1,214,204
—, —, blast furnace gas, burner for, made with, 1,223,308
—, —, carbon black made with, 1,220,391
—, —, catalyst (for the mfr. of, acetaldehyde), made with, 1,487,020
—, —, —, (for the mfr. of anthraquinone), made with, 1,487,020
—, —, —, (for the mfr. of benzaldehyde), made with, 1,487,020
—, —, —, (for the mfr. of benzene), made with, 1,214,204
—, —, —, (for the mfr. of, formaldehyde), made with, 1,487,020
—, —, —, (for the mfr. of, hydrocarbon, benzene), made with, 1,214,204
—, —, —, (for the mfr. of nitrogen oxides), made with, 1,211,394
—, —, —, (for the mfr. of toluene), made with, 1,214,204
—, —, —, (for the mfr. of xylene), made with, 1,214,204
—, —, cement made with, 1,276,221; 1,511,503; 1,511,504
—, —, coal gas, burner for, made with, 1,223,308
—, —, coke oven gas, burner for, made with, 1,223,308
—, —, formaldehyde, catalyst for the mfr. of, made with, 1,487,020
—, —, fuel, gaseous, burner for, made with, 1,223,308
—, —, furnaces, lining of using, 1,517,820
—, —, gasolene air gas, burner for, made using, 1,223,308
—, —, hydrocarbon, benzene, catalyst for the mfr. of, made with, 1,214,204
—, —, —, burner for, made with, 1,223,308
—, —, —, hydrochloric acid for, 1,206,546
—, —, hydrogen made with, 1,220,391
—, —, iron composition contg., 1,339,469
—, —, lamp, electric arc, self-igniting, made with, 1,216,404
—, —, mfr. of, alum for, 1,224,275
—, —, —, alumina for, 1,209,784
—, —, —, aluminum hydroxide for, 1,244,275
—, —, —, aluminum sulfate for, 1,244,275
—, —, —, calcium carbonate for, 1,192,099; 1,206,546
—, —, —, calcium hydroxide for, 1,462,596; Re-15,829

Brick, fire-, mfr. of, calcium oxide for, 1,462,596; Re-15,829
—, —, —, calcium sulfate for, 1,244,275
—, —, —, chalk for, 1,192,099
—, —, —, clay for, 1,192,099; 1,209,784; 1,212,846
—, —, —, clay, fire, for, 1,212,846; 1,260,398
—, —, —, —, flint, for, 1,212,846
—, —, —, coal for, 1,192,099
—, —, —, coal ash for, 1,198,171; 1,209,784
—, —, —, coke for, 1,192,099
—, —, —, cryolite for, 1,512,801
—, —, —, diatomaceous earth for, 1,206,546
—, —, —, grog for, 1,512,801
—, —, —, iron carbonate for, 1,206,546
—, —, —, kaolin for, 1,212,846
—, —, —, lime for, 1,192,099; 1,244,275; 1,462,596; Re-15,829
—, —, —, limestone for, 1,192,099
—, —, —, magnesia for, 1,198,171; 1,512,801
—, —, —, magnesium carbonate for, 1,206,546
—, —, —, molasses for, 1,212,846
—, —, —, phosphoric acid for, 1,512,801
—, —, —, phosphorus pentoxide for, 1,512,801
—, —, —, plaster of Paris for, 1,512,801
—, —, —, potassium carbonate for, 1,206,546
—, —, —, potassium hydroxide for, 1,244,275
—, —, —, process for, 1,192,099; 1,198,171; 1,206,546; 1,209,784; 1,212,846; 1,244,275; 1,260,398; 1,462,496; Re-15,829; 1,512,801
—, —, —, quartz for, 1,192,099
—, —, —, red dog for, 1,462,596; Re-15,829
—, —, —, silica for, 1,244,275
—, —, —, silica rock for, 1,260,398
—, —, —, siliconite for, 1,244,275
—, —, —, slate for, 1,462,596; Re-15,829
—, —, —, soap, Castile, for, 1,512,801
—, —, —, sodium carbonate for, 1,206,546
—, —, —, sugar for, 1,212,846
—, —, —, thoria for, 1,512,801
—, —, —, thoria, grade B, for, 1,512,801
—, —, —, thorium oxide for, 1,512,801
—, —, —, zirconia for, 1,512,801
—, —, —, zirconium dioxide for, 1,512,801
—, —, natural gas, burner for, made with, 1,223,308
—, —, nitrogen oxides, catalyst for the mfr. of, made with, 1,211,394
—, —, nitrogen trichloride made with, 1,510,132
—, —; plastic made with, 1,193,952
—, —, producer gas, burner for, made using, 1,223,308
—, —, refractory made with, 1,511,503; 1,511,504
—, —, toluene, catalyst for the mfr. of, made with, 1,214,204
—, —, treatment of, calcium hydroxide for, 1,319,178
—, —, —, calcium magnesium chloride for, 1,319,178
—, —, —, copper sulfate for, 1,319,178
—, —, —, tachhydrite for, 1,319,178
—, —, water gas, burner for, made with, 1,223,308
—, —, xylene, catalyst for the mfr. of, made with, 1,214,204
—, —, *see also Fire-brick; Refractory*
Brick, fireproof, nitrogen oxides made with, 1,486,990
—, formula, sand 10, stone 5, cinder 5, iron 5, cement 70, 1,317,288
—, —, slag 28, cement 8, asphalt 4, rosin 1, 1,269,649
—, glazed surface for, mfr. of, process for, 1,245,981; 1,245,982
—, glazing of, oxy-acetylene flame for, 1,158,417
—, —, process for, 1,158,417
—, gold recovered from sea water with, 1,358,096
—, greensand residue used in, 1,323,764
—, ground, cement, acid-resistant, made with, 1,287,995; 1,288,413
—, —, refractory made with, 1,126,659
—, heat-insulating, mfr. of, 1,307,548; 1,307,549
—, insulation, heat, made with, 1,456,667
—, iron coated, mfr. of, process for, 1,258,282
—, iron oxide in, 1,256,042
—, kieselguhr, mfr. of, alkali for, 1,143,826
—, —, —, carbonaceous matter for, 1,143,826
—, —, —, lime for, 1,143,826
—, —, —, process for, 1,143,826
—, kiln for, construction of, 1,224,978
—, lacquering for, mfr. of, process for, 1,245,981; 1,245,982
—, lead coated, mfr. of, process for, 1,258,282
—, lead alloy, antimony in, mfr. of, process for, 1,258,282
—, —, tin coated, mfr. of, process for, 1,258,282
—, magnesia, mfr. of, aluminum silicate for, 1,307,197
—, —, —, process for, 1,307,197
—, —, —, silica for, 1,307,197
—, —, —, sodium silicate for, 1,307,197
—, magnesite, carbon black made with, 1,220,391
—, —, hydrogen made with, 1,220,391
—, —, mfr. of, process for, 1,305,457; 1,451,540
—, —, nitrogen oxides made with, 1,486,990
—, magnesium carbonate in, 1,256,042
—, magnesium chloride, in mfr. of, process for, 1,451,540
—, magnesium oxide in mfr. of, process for, 1,451,540
—, magnesium oxychloride in mfr. of, process for, 1,451,540
—, mfr. of, alcohol for, 1,450,140
—, —, alkali for, 1,249,028
—, —, alkali silicates for, 1,249,028
—, —, alum for, 1,193,952
—, —, alumina for, 1,463,399
—, —, aluminum oxide for, 1,450,140
—, —, apparatus for, 1,171,676; 1,206,545; 1,218,239; 1,229,582; 1,510,717; 1,518,842
—, —, asbestos for, 1,193,952; 1,211,028; 1,364,004
—, —, ashes for, 1,440,234
—, —, asphalt for, 1,220,292; 1,220,293; 1,269,649; 1,320,709
—, —, asphalt, Trinidad, for, 1,320,709
—, —, banana stalk for, 1,309,038
—, —, barium carbonate for, 1,245,285
—, —, benzene for, 1,220,401; 1,450,140
—, —, binder for, 1,278,663
—, —, bitumen for, 1,320,709
—, —, blast furnace slag for, 1,259,304; 1,463,399

Brick, mfr. of, bone ash for, 1,245,285
—, —, boric acid for, 1,211,028
—, —, calcium aluminates for, 1,242,422
—, —, calcium carbonate for, 1,249,028
—, —, calcium chloride for, 1,234,626; 1,269,331
—, —, calcium hydroxide for, 1,171,676; 1,234,626; 1,235,766; 1,242,421; 1,242,422; 1,249,028; 1,256,042; 1,278,663; 1,440,234; 1,462,596; Re-15,829; 1,518,842
—, —, calcium oxide for, 1,235,766; 1,242,421; 1,242,422; 1,309,038; Re-15,829; 1,462,596; 1,518,842
—, —, calcium phosphate for, 1,269,331
—, —, calcium silicates for, 1,242,422
—, —, carbon for, 1,450,140
—, —, carbon bisulfide for, 1,220,401
—, —, carbon dioxide for, 1,256,042; 1,518,842
—, —, carborundum for, 1,168,211
—, —, cement for, 1,143,004; 1,212,840; 1,218,239; 1,220,401; 1,255,878; 1,269,649; 1,309,038; 1,317,288; 1,462,991
—, —, cement, hydraulic, for, 1,193,952
—, —, —, Portland, for, 1,143,004; 1,255,878; 1,274,726; 1,364,004
—, —, chalk for, 1,193,952
—, —, chromium ore for, 1,463,399
—, —, cinders for, 1,212,840; 1,218,239; 1,317,288; 1,440,234
—, —, clay for, 1,168,211; 1,206,545; 1,242,422; 1,245,285; 1,249,028; 1,255,878; 1,318,960; 1,320,709; 1,364,004; 1,463,399; 1,520,328
—, —, clay, ball, for, 1,245,285
—, —, —, cement and sand for, 1,395,990
—, —, —, China, for, 1,245,285
—, —, —, fire, for, 1,193,952
—, —, —, hard flint, for, 1,168,211
—, —, —, stoneware No. 1, for, 1,245,285
—, —, clinkers for, 1,218,239
—, —, coal ash for, 1,193,952; 1,212,840; 1,364,004
—, —, coal cinder for, 1,212,840
—, —, corn cob for, 1,309,038
—, —, corn stalk for, 1,309,038
—, —, cryolite for, 1,269,331
—, —, cypress wood for, 1,220,292; 1,220,293
—, —, dolomite for, 1,463,399
—, —, earth for, 1,278,663; 1,320,709
—, —, earth, colored, for, 1,218,239
—, —, feldspar for, 1,234,626; 1,242,422; 1,245,285; 1,249,028
—, —, flint for, 1,168,211; 1,245,285; 1,450,140
—, —, fluorite for, 1,269,331
—, —, formula for, fire clay 15, lime water 5, salt 5, asbestos cement 25, sand 25, graphite 25, 1,421,751
—, —, gas tar for, 1,220,401
—, —, glauconite for, 1,234,626; 1,245,421; 1,269,331
—, —, glauconite marl for, 1,269,331
—, —, graphite for, 1,193,952; 1,450,140
—, —, graphite, flake, for, 1,450,140
—, —, gravel for, 1,220,401; 1,255,878
—, —, greensand for, 1,242,421; 1,249,028; 1,269,331
—, —, gypsum for, 1,193,952; 1,211,028; 1,364,004
—, —, hydrocarbon for, 1,220,401
—, —, hydrochloric acid for, 1,218,239
Brick, mfr. of, infusorial earth for, 1,206,545
—, —, iron, granular, for, 1,317,288
—, —, —, pig, for, 1,317,288
—, —, iron chloride for, 1,234,626
—, —, iron oxide for, 1,218,239; 1,463,399
—, —, Joplin grit for, 1,278,663
—, —, kaolin for, 1,211,028; 1,245,285
—, —, kieselguhr for, 1,206,545
—, —, kiln for, 1,179,928
—, —, lead protoxide for, 1,193,952
—, —, leucite for, 1,234,626; 1,249,028
—, —, lime for, 1,193,952; 1,234,626; 1,242,421; 1,242,422; 1,249,028; 1,255,878; 1,269,331; 1,274,726; 1,462,596; Re-15,829
—, —, limestone for, 1,269,331
—, —, loam for, 1,520,328
—, —, magnesium oxide for, 1,234,626; 1,364,004
—, —, manganese slag for, 1,462,991
—, —, marl for, 1,193,952
—, —, mica for, 1,242,422
—, —, mother-of-pearl in, 1,302,252
—, —, muscovite for, 1,249,028
—, —, niter for, 1,259,304
—, —, Paris white for, 1,245,285
—, —, phenol aldehyde condensate for, 1,450,140
—, —, pitch for, 1,220,401
—, —, plaster of Paris for, 1,193,952; 1,309,038
—, —, potassium salt for, 1,249,028
—, —, potato for, 1,259,304
—, —, process for, 1,143,004; 1,168,211; 1,171,676; 1,193,952; 1,206,545; 1,211,028; 1,212,840; 1,218,239; 1,220,292; 1,220,293; 1,220,401; 1,229,582; 1,234,626; 1,235,766; 1,242,421; 1,242,422; 1,245,285; 1,249,028; 1,255,878; 1,256,042; 1,269,331; 1,269,649; 1,274,726; 1,278,663; 1,309,038; 1,317,288; 1,364,004; 1,384,393; 1,430,991; 1,440,234; 1,442,585; 1,450,140; 1,462,596; Re-15,829; 1,462,991; 1,518,842; 1,520,328
—, —, pumice for, 1,193,952
—, —, quartz for, 1,245,285
—, —, red dog for, 1,462,596; Re-15,829
—, —, resin, artificial, for, 1,450,140
—, —, rock for, 1,242,421; 1,242,422; 1,320,709
—, —, roll scale for, 1,318,960
—, —, rosin for, 1,220,401; 1,269,649
—, —, rubber for, 1,220,401
—, —, sand for, 1,143,004; 1,193,952; 1,220,401; 1,235,766; 1,242,422; 1,249,028; 1,255,878; 1,259,304; 1,317,288; 1,320,709; 1,520,328
—, —, sand, bank, for, 1,242,421
—, —, —, sea, for, 1,242,421
—, —, —, torpedo, for, 1,317,288
—, —, sawdust for, 1,211,028; 1,220,292; 1,220,293; 1,309,038
—, —, scale from steel rolling mill for, 1,318,960
—, —, sericite for, 1,242,422
—, —, shale for, 1,255,878
—, —, shale rock for, 1,255,878
—, —, shell marl for, 1,269,331
—, —, silica for, 1,278,663; 1,463,399
—, —, silicon carbide for, 1,450,140
—, —, slag for, 1,171,676; 1,259,304; 1,269,649; 1,278,663; 1,463,399; 1,518,842
—, —, slate, for, 1,462,596; Re-15,829
—, —, sodium chloride for, 1,269,331; 1,274,726
—, —, sodium salt for, 1,249,028

Brick, mfr. of, sodium silicate for, 1,193,952; 1,274,726; 1,364,004; 1,450,140
—, —, stone for, 1,317,288
—, —, sugar beet juice for, 1,256,042
—, —, sugar cane juice for, 1,256,042
—, —, sulfates for, 1,269,331
—, —, sulfur for, 1,143,004
—, —, talc for, 1,364,004
—, —, tuff for, 1,274,726
—, —, vegetable juice for, 1,256,042
—, —, water for, 1,235,766; 1,520,328
—, —, water, soapy, for, 1,143,004
—, —, whiting for, 1,245,285
—, —, zinc sulfate for, 1,193,952
—, metal coated, mfr. of, process for, 1,258,282
—, *"metalkase," see "Metalkase" brick*
—, organic material in, 1,256,042
—, ornamental, mfr. of, apparatus for, 1,195,649
—, —, —, process for, 1,195,649
—, painting of, lead for, 1,239,953
—, —, pigment for, 1,239,953
—, —, process for, 1,239,953
—, paving, mfr. of, process for, 1,261,114
—, plastic, handling of, apparatus for, 1,510,717
—, porous, flotation apparatus made with, 1,125,897
—, —, nickel carbonyl absorbed by, 1,436,662
—, refractory, aluminum nitride made with, 1,250,874
—, —, bauxite and magnesite, 1,373,854
—, —, dolomite for mfr. 1,380,701
—, —, furnaces, lining of using, 1,517,820
—, —, light weight, mfr. of, 1,345,632
—, —, mfr. of, process for, 1,303,993; 1,439,286
—, —, *see also Refractory brick*
—, Rhenish tuff, blast furnace slag prepared for use in mfr. of, 1,163,605
—, road paving made with, 1,247,105; 1,261,845
—, roofing made with, 1,417,836
—, rosin in, 1,269,649
—, sand-lime, mfr. of, albite for, 1,514,657
—, —, —, alkali aluminate for, 1,514,657
—, —, —, alkali earth oxide for, 1,514,657
—, —, —, bauxite for, 1,514,657
—, —, —, calcium carbonate for, 1,514,657
—, —, —, calcium chloride for, 1,514,657
—, —, —, calcium oxide for, 1,514,657
—, —, —, carbon for, 1,514,657
—, —, —, clay for, 1,514,657
—, —, —, feldspar for, 1,514,657
—, —, —, leucite for, 1,514,657
—, —, —, lime for, 1,514,657
—, —, —, magnesia for, 1,514,657
—, —, —, magnesium carbonate for, 1,514,657
—, —, —, magnesium oxide for, 1,514,657
—, —, —, orthoclase for, 1,514,657
—, —, —, potassium carbonate for, 1,514,657
—, —, —, potassium hydroxide for, 1,514,657
—, —, —, process for, 1,514,657
—, —, —, sodium carbonate for, 1,514,657
—, —, —, sodium chloride for, 1,514,657
—, —, —, sodium hydroxide for, 1,514,657
—, —, —, steam for, 1,514,657
—, —, —, zeolite for, 1,514,657
—, "Si-gur," mfr. of, process for, 1,143,826
—, silica, analysis of, 1,477,810
—, —, Baraboo, tests of, 1,477,810
Brick, silica, expansion of, preventing, 1,420,284
—, —, furnaces, lining of using, 1,517,820
—, —, mfr. of, bauxite for, 1,477,810
—, —, —, boric acid, compounds of for, 1,477,810
—, —, —, —, salts of, for, 1,477,810
—, —, —, calcium hydroxide for, 1,477,810
—, —, —, calcium sulfate for, 1,477,810
—, —, —, carbon for, 1,477,810
—, —, —, carbonyl chloride for, 1,477,810
—, —, —, chert for, 1,477,810
—, —, —, clay, flint fire, for, 1,477,810
—, —, —, coke for, 1,477,810
—, —, —, cristobalite for, 1,477,810
—, —, —, kaolin for, 1,477,810
—, —, —, kaolinite for, 1,477,810
—, —, —, millstone grit for, 1,477,810
—, —, —, molybdic acid for, 1,477,810
—, —, —, nouvaculite for, 1,477,810
—, —, —, phosphate rock for, 1,477,810
—, —, —, phosphorus for, 1,477,810
—, —, —, process for, 1,363,264; 1,420,284; 1,477,810
—, —, —, quartz for, 1,477,810
—, —, —, quartz, Medina, for, 1,477,810
—, —, —, quartzite, Baraboo, for, 1,477,810
—, —, —, —, red Jaspar, for, 1,477,810
—, —, —, sand, silica, for, 1,477,810
—, —, —, sodium chloride for, 1,477,810
—, —, —, sodium tungstate for, 1,477,810
—, —, —, sulfur trioxide for, 1,477,810
—, —, —, tridymite for, 1,477,810
—, —, —, tungstic acid for, 1,477,810
—, —, Medina, tests of, 1,477,810
—, —, phosphorus in, 1,477,810
—, —, tests of, 1,477,810
—, —, *see also Refractory; Silica brick*
—, silicic acid sol, impregnation with of, 1,477,938
—, slag in, 1,269,649
—, slag, mfr. of, alkali earth salt for, 1,123,841
—, —, —, aluminum oxide for, 1,123,841
—, —, —, aluminum silicates for, 1,123,841
—, —, —, calcium carbonate for, 1,123,841
—, —, —, calcium chloride for, 1,123,841
—, —, —, calcium oxide for, 1,123,841
—, —, —, calcium sulfate for, 1,123,841
—, —, —, feldspar for, 1,123,841
—, —, —, gypsum for, 1,123,841
—, —, —, magnesium sulfate for, 1,123,841
—, —, —, orthoclase for, 1,123,841
—, —, —, potassium silicate for, 1,123,841
—, —, —, process for, 1,123,841
—, —, —, silica for, 1,123,841
—, slate, mfr. of, calcium hydroxide for, 1,462,596; Re-15,829
—, —, —, calcium oxide for, 1,462,596; Re-15,829
—, —, —, lime for, 1,462,596; Re-15,829
—, —, —, process for, 1,462,596; Re-15,829
—, —, —, red dog for, 1,462,596; Re-15,829
—, —, —, slate for, 1,462,596; Re-15,829
—, stone, artificial, made with, 1,163,060; 1,487,057
—, sugar in, 1,256,042
—, surfacing of, adhesive for, 1,518,398
—, —, brass filings for, 1,513,620

Brick, surfacing of, cement, Portland, for, 1,518,398
—, —, glass for, 1,518,398
—, —, granite for, 1,518,398
—, —, iron filings for, 1,513,620
—, —, marble for, 1,518,398
—, —, paraffin for, 1,513,620
—, —, process for, 1,513,620; 1,518,398
—, —, sand, sea, for, 1,518,398
—, —, sandstone for, 1,518,398
—, —, sodium chloride for, 1,513,620
—, tile made with, 1,210,756
—, tile, sound-absorbing, made with, 1,284,933
—, tin coated, mfr. of, process for, 1,258,282
—, treatment of, calcium hydroxide for, 1,319,178
—, —, calcium magnesium chloride for, 1,319,178
—, —, copper sulfate for, 1,319,178
—, —, tachhydrite for, 1,319,178
—, wall, finishing of, using, 1,210,158
—, waterproofing of, alumina for, 1,185,555
—, —, aluminum potassium sulfate for, 1,390,236
—, —, asphalt for, 1,150,481
—, —, borax for, 1,471,792
—, —, calcium chloride for, 1,390,236
—, —, calcium hydroxide for, 1,150,481; 1,270,450; 1,390,236
—, —, calcium oxide for, 1,150,481
—, —, cement, hydraulic, for, 1,270,450
—, —, clay for, 1,471,792
—, —, coal tar for, 1,150,481
—, —, cobalt for, 1,471,792
—, —, coke tar for, 1,150,481
—, —, composition for, 1,437,893
—, —, earth for, 1,150,481
—, —, glass for, 1,471,792
—, —, glass culet for, 1,185,555
—, —, gravel for, 1,150,481
—, —, "hard pitch" for, 1,150,481
—, —, iron oxide for, 1,471,792
—, —, kaolin for, 1,471,792
—, —, lead carbonate for, 1,471,792
—, —, maltha for, 1,150,481
—, —, mica for, 1,270,450
—, —, petroleum residuum for, 1,150,481
—, —, process for, 1,185,555; 1,270,450; 1,390,236; 1,471,792; 1,502,501
—, —, sand for, 1,150,481
—, —, shellac for, 1,502,501
—, —, silicon for, 1,185,555
—, —, silicate for, 1,185,555
—, —, soap, Castile, for, 1,390,236
—, —, stone for, 1,150,481
—, —, tin oxide for, 1,471,792
—, —, varnish for, 1,502,501
—, —, water for, 1,150,481
—, zeolite, artificial, made with, 1,493,455
—, zinc coated, mfr. of, process for, 1,258,282
—, *see also Building block; Building material; Conduit; Molded article; Plastic; Stone artificial; Terra cotta; Tile*
Brick dust, abrasive made with, 1,504,697
—, calcium iron silicate made with, 1,254,676
—, molding composition contg., 1,421,954
—, piling, preserving of, using, 1,512,659
Brick dust, potassium chloride made with, 1,254,676
—, steel made with, 1,471,655
—, wood, preserving of, using, 1,512,659
Brick meal, metal, protective coating for, contg., 1,318,313
—, ship, bottom, protective coating for contg., 1,318,313
—, wood, protective coating for contg., 1,318,313
Brick powder, match composition contg., 1,387,999
—, molded article made with, 1,141,610
—, stone, artificial, made with, 1,141,610
—, wood, coating for, made with, 1,141,610
Brick substitute, mfr. of, aluminum sulfate for, 1,463,123
—, —, calcium hydroxide for, 1,463,123
—, —, calcium sulfate for, 1,463,123
—, —, cement for, 1,463,123
—, —, cinder for, 1,463,123
—, —, diatomaceous earth for, 1,463,123
—, —, magnesium chloride for, 1,463,123
—, —, paper for, 1,463,123
—, —, plaster of Paris for, 1,463,123
—, —, process for, 1,463,123
—, —, sand for, 1,463,123
—, —, sawdust for, 1,463,123
—, —, sodium silicate for, 1,463,123
—, —, straw for, 1,463,123
—, —, wood pulp for, 1,463,123
Brick waste, cement contg., 1,456,667
—, insulating composition contg., 1,456,667
—, stone, artificial, contg., 1,456,667
Brickwork, glaze on, producing, 1,402,412
Bridge, locking mechanism for, 1,145,166
Brie cheese, see Cheese, brie
Bright red oxide of iron, see Iron oxide pigment
Brilliant Alizarine Blue G, cellulose acetate, dyeing of using, 1,448,432; 1,517,709
—, cotton, fabric contg., dyeing of using, 1,517,709
—, linen, fabric contg., dyeing of using, 1,517,709
—, silk, artificial, cellulose acetate, fabric contg., dyeing of using, 1,517,709
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—, wool, fabric contg., dyeing of using, 1,517,709
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Brilliant Congo G, see Diphenyl-disazo-naphthylamine-sulfonic-β-naphthylamine-disulfonic acid, sodium salt of
Brilliant Congo R see Ditolyl-disazo-β-naphthylamine-monosulfonic-β-naphthylamine disulfonic acid, sodium salt of
Brilliant Croceine 9B, see Disulfo-β-naphthalene-azo-benzene-azo-β-naphthol-disulfonic acid sodium salts
Brilliant Croceine M, see Benzene-azo-benzene-β-naphthol disulfonic acid, sodium salt of
Brilliant green, antiseptic properties of, 1,382,715
—, anti-toxin preservative of using, 1,476,233
—, bacterin preservative of using, 1,476,233
—, biological product preservative of using, 1,476,233

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—, cultural filtrate preservatives of using, 1,476,233
—, lake made with, 1,232,551
—, serum preservative of using, 1,476,233
—, silk dyed with, 1,446,860
—, surgical suture made using, 1,382,715
—, vaccine preservative of using, 1,476,233
—, virus, preservative of using, 1,476,233
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Brilliant Hessian Purple, see Disulfostilbene-disazo-bi-β-naphthylamine-β-sulfonic acid, sodium salt of
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—, linen, fabric contg., dyeing of using, 1,517,709
—, silk, artificial, cellulose acetate dyeing of using, 1,517,709
—, —, —, cellulose acetate, fabric contg., dyeing of using, 1,517,709
—, wool, fabric contg., dyeing of using, 1,517,709
Brilliant Purpurin R see Ditolyl-disazo-naphthionic-β-naphthylamine-disulfonic acid, sodium salt of
Brilliant Scarlet, see Croceine Scarlet 4 BX
Brilliant yellow, color photography dye, 1,376,940
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—, scouring device made with, 1,519,577
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—, —, asphalt in mfr. of, 1,452,992
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—, —, blast furnace dust for, 1,246,808
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—, —, calcium hydroxide in binder for, 1,154,980
—, —, calcium oxide for, 1,246,805; Re-14,653; 1,246,807
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—, —, clay for, 1,239,273
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—, —, coal culm for, 1,246,805; Re-14,653; 1,246,807
—, —, coal dust for, 1,246,805; Re-14,653; 1,246,807; 1,246,808
—, —, coal tar in binder for, 1,154,980
—, —, coal tar pitch for, 1,123,719; 1,452,992
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—, —, potassium perchlorate in binder for, 1,154,980
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1-Brom-2-chlorhydrin, glycerol made with, 1,477,113
Brom-chlor-*b*-naphisatin, dyestuff made with, 1,500,013
Bromcresol, orcinol from, 1,321,271
Brom-cresol purple, boric acid, determination in presence of nickel salts of, using, 1,504,207
—, *see also Dibromo-o-cresol-sufon-phthalein*

Brom-diethyl-acetamide, triethyl-acetamide made with, 1,482,343
a-Brom-diethyl-acetic acid, anilides of, analgesic, 1,279,942
—, —, hypnotic, 1,279,942
—, —, sedative, 1,279,942
Brom-diethyl-acetonitrile, *a*-allyl-*a.a*-diethyl-acetamide made with, 1,482,343
—, *a*-allyl-*a.a*-diethyl-acetonitrile made with, 1,482,343
a-Brom-diethyl-acetyl-bromide, *N*-(*a*-brom-diethyl-acetyl)-phenetidine made with, 1,279,942
Bromdiethylacetyl carbamic acid, derivatives of, mfr. of, process for, 1,256,293
a-Brom-diethyl-acetyl-*b*-carbethoxy-urea, mfr. of, brom-diethyl-acetyl-isocyanate for, 1,424,236
—, —, ethyl carbamate for, 1,424,236
—, —, petroleum ether for, 1,424,236
—, —, process for, 1,424,236
—, properties of, 1,424,236
Bromdiethylacetylcarboxyalkylurea compound, mfr. of, 1,424,236
Bromdiethylacetylcarboxyethylurea, mfr. of, 1,424,236
—, soporific of, 1,424,236
—, *see also a-(Brom-diethyl-acetyl)-b-carbethoxy-urea*
Bromdiethylacetylisocyanate, *p*-acetamido-phenyl bromdiethylacetylcarbamate made with, 1,256,293
Bromdiethylacetylisocyanate, bromodiethylacetylcarboxyethylurea from, 1,424,236
—, *a*-(brom-diethyl-acetyl)-*b*-carbethoxy-urea made with, 1,424,236
N-a-(Brom-diethyl-acetyl)-phenetidine, analgesic as, 1,279,942
—, hypnotic as, 1,279,942
—, sedative as, 1,279,942
N-(*a*-Brom-diethyl-acetyl)-*p*-phenetidine, mfr. of, *a*-brom-diethyl-acetyl-bromide for, 1,279,942
—, —, ether for, 1,279,942
—, —, *p*-phenetidine for, 1,279,942
—, —, process for, 1,279,942
Bromdiethylacetylurethanes, mfr. of, process for, 1,256,293
—, *see also Bromdiethylacetyl carbamic acid, derivative of*
2-Brom-4-dimethylamino-benzene-1-arsenic oxide, 2-brom-3.5-dinitro-4-methylnitramino-benzenearsonic acid made with, 1,180,627
—, 2.2′-dibrom-4.4′-dimethylamino-3.5.3′.5′-tetramino-arsenobenzene made with, 1,180,627
2-Brom-3.5-dinitro-4-methylnitramino-benzenearsonic acid, 2.2′-dibrom-4.4′-di methylamino-3.5.3′.5′-tetramino-arsenobenzene made with, 1,180,627
—, mfr. of, 2-brom-4-dimethylamino-benzene-1-arsenic oxide for, 1,180,627
—, —, hydrochloric acid for, 1,180,627
2-Brom-3.5-dinitro-4-methylnitramino-benzenearsonic acid, mfr. of, nitric acid for, 1,180,627
—, —, process for, 1,180,627
2-Brom-3.5-dinitro-4-methylnitramino-benzenearsonic acid, mfr. of, sodium acetate for, 1,180,627
—, —, sulfuric acid for, 1,180,627
—, solvent for, acetone for, 1,180,627
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—, —, methyl alcohol as, 1,180,627
—, —, water as, 1,180,627
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Bromelia fiber, treatment of, alkali hydroxide for, 1,193,703
—, —, potassium hydroxide for, 1,193,703
—, —, process for, 1,193,703
—, —, sodium hydroxide for, 1,193,703
—, —, sulfuric acid for, 1,193,703
Bromelin, adrenal glands treated with, 1,460,832
—, ale made with, 1,235,881; 1,235,882
—, bread made with, 1,179,877
—, beer made with, 1,235,881; 1,235,882
—, beverage made with, 1,235,881; 1,235,882; 1,441,726
—, *see also Enzyme, proteolytic*
Brom-ethane, see Ethyl bromide
2-Brom-ethanol, ethylene cyanhydrin from, 1,388,016
—, mfr. of, bromine for, 1,496,675
—, —, copper bromide for, 1,496,675
—, —, copper salt for, 1,496,675
—, —, ethylene for, 1,496,675
—, —, process for, 1,482,306; 1,496,675
—, —, water for, 1,496,675
b-Bromethyl acetate, mfr. of, acetyl bromide for, 1,393,191
—, —, ethylene oxide for, 1,393,191
—, —, ethylene oxide and acetyl bromide for, 1,393,191
—, —, process for, 1,393,191
a-Brom-a-ethyl-n-butyronitrile, see Brom-diethyl-acetonitrile
(a-Brom-a-ethyl-butyryl) urea, see Adaline
Bromethyl-diethylamine, see b-Bromtriethyl-amine
Bromethyldiethylamine hydrobromate, ethyl diethylaminoethyl acetoacetate from, 1,429,922
Brom-ethylene, acid-proofing made with, 1,241,738
—, alkali proofing made with, 1,241,738
—, amber substitute made with, 1,241,738
—, celluloid substitute made with, 1,241,738
—, cellulose ester substitute made with, 1,241,738
—, coating made with, 1,241,738
—, fabric, impregnation of using, 1,241,738
—, film made with, 1,241,738
—, fireproofing made with, 1,241,738
—, horn substitute made with, 1,241,738
—, insulation, electric, made with, 1,241,738
—, lacquer made with, 1,241,738
—, mfr. of, acetylene for, 1,414,852; 1,425,130
—, —, acetylene and hydrobromic acid for, 1,414,852
—, —, benzene for, 1,425,130
—, —, benzine for, 1,425,130
—, —, calcium chloride for, 1,425,130
—, —, chlorbenzene for, 1,425,130

Brom-ethylene, mfr. of, *s*-dibrom-ethane for, 1,237,076
—, —, ether for, 1,425,130
—, —, hydrobromic acid for, 1,414,852; 1,425,130
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—, —, nitrogen for, 1,425,130
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—, —, process for, 1,237,076; 1,414,852; 1,425,130
—, —, sodium hydroxide for, 1,237,076
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—, —, xylene for, 1,425,130
—, molded article made with, 1,241,738
—, paint made with, 1,241,738
—, paper, impregnation of using, 1,241,738
—, plastic made with, 1,241,738
—, preparation of, 1,425,130
—, resin, artificial, made with, 1,241,738
—, stone, artificial, impregnation of using, 1,241,738
—, thread, artificial, made with, 1,241,738
—, waterproofing made with, 1,241,738
—, wood, impregnation of using, 1,241,738
Bromethylformin, see Bromaline
Bromethyl-magnesium-bromide, *omega*-brom-*n*-propyl chlormethyl carbinol made with, 1,150,251
b-Bromethyl *p*-nitrobenzoate, *b*-(N.N.-allyl-*n*-butyl) aminoethyl *p*-aminobenzoate made with, 1,476,934
—, *b*-(N.N-allyl-*n*-butyl) aminoethyl *p*-nitro-benzoate made with, 1,476,934
—, mfr. of, alcohol for, 1,260,289
—, —, alkali for, 1,260,289
—, —, amine as catalyst for, 1,260,289
—, —, copper as catalyst for, 1,260,289
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—, —, ethylene bromide for, 1,260,289
—, —, *p*-nitrobenzoic acid for, 1,260,289
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—, —, sodium *p*-nitrobenzoate for, 1,260,289
—, novocaine made with, 1,260,289
Bromethyl-triethyl-arsonium-bromide, ethanol-triethyl-arsonium-bromide made with, 1,308,413
—, mfr. of, alcohol for, 1,308,413
—, —, *s*-dibromethane for, 1,308,413
—, —, triethyl arsine for, 1,308,413
Bromethyl-trimethyl-arsonium-bromide, ethanol-trimethyl-arsonium-bromide from, 1,308,413
—, mfr. of, alcohol for, 1,308,413
—, —, *s*-dibromethane for, 1,308,413
—, —, process for, 1,308,413
—, —, trimethyl arsine for, 1,308,413
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Bromgallamine blue, dyestuff made with, 1,227,407
Bromhydrin, mfr. of, apparatus for, 1,253,615
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—, —, process for, 1,253,615
—, —, sodium bromide for, 1,253,615; 1,264,535; 1,264,536
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—, —, —, benzaldehyde for, 1,151,255
—, —, —, benzyl chloride for, 1,151,255
—, —, —, toluene for, 1,151,255
—, fire extinguisher contg., 1,151,255
—, iron container for, prevention of corrosion of, benzal chloride for, 1,151,255
—, —, —, benzaldehyde for, 1,151,255
—, —, —, benzyl chloride for, 1,151,255
—, —, —, toluene for, 1,151,255
1-Brom-4-hydroxy-anthraquinone, mfr. of, bromine for, 1,401,125
—, —, 1-hydroxy-anthraquinone for, 1,401,125
—, —, nitro-benzene for, 1,401,125
—, —, process for, 1,401,125
—, —, sodium carbonate for, 1,401,125
2-(4′-Brom-1′-hydroxy-2′-naphthoyl)-benzoic acid, dyestuff made with, 1,194,380
5-Brom-6-hydroxyquinoline, bismuth and iodine contg. compound of, 1,129,865
—, bismuth oxyiodide, compound of made and, 1,129,865
—, —, compound of and as antiseptic, 1,129,865
—, iodine and bismuth contg. compound of, 1,129,865
5-Brom-8-hydroxyquinoline, bismuth and iodine contg. compound of, 1.129,865
—, bismuth, oxyiodide, compound made of and, 1,129,865
—, —, compound of and as antiseptic, 1,129,865
—, iodine and bismuth contg. compound of, 1,129,865
Bromic acid, bread made with, 1,148,328
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Bromicresol purple, colorimetric standard made with, 1,505,185
Bromide, battery, primary, made with, 1,163,834
—, bromide made with, 1,141,922
—, catalyst, diphenylamine made with, 1,314,538
—, corn oil made with, 1,161,481
—, etching, film, photographic, treatment of for, made with, 1,256,981
—, films, photographic, varying porosity of, made with, 1,256,981
—, *a*-hydroxy-acids made with, 1,479,874
—, mfr. of, bromine for, 1,380,851
—, oat oil made with, 1,161,481
—, oil, vegetable, made with, 1,161,481
—, pea oil made with, 1,161,481
—, picture, film, photographic, treatment of for, made with, 1,256,981
—, pulse oil made with, 1,161,481
—, sea salt contg., 1,161,481
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Bromide chloride, 8-amino-3.7-dimethyl-2-dimethylamino-10-methylacridinium bromide made with, 1,473,550
Bromination, apparatus for, 1,365,740
Brom-indigo, dyestuff made with, 1,440,037; 1,473,887
—, mfr. of, bisulfite for, 1,473,887
—, —, bromine for, 1,473,887
—, —, carbon tetrachloride for, 1,473,887

Brom-indigo, mfr. of, indigo for, 1,473,887
—, —, process for, 1,431,606; 1,473,887
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—, acetic anhydride made with, 1,195,227
—, acridine dyestuffs halogenated with, 1,418,852
—, alkali bromides made with, 1,437,740
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—, 2-amino-1-brom-3-chlor-anthraquinone made with, 1,452,774
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—, ammonium bromide from, 1,292,016
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—, —, —, potassium for, 1,233,333
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—, —, —, sodium for, 1,233,333
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—, —, —, calcium for, 1,233,333
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—, —, —, sodium for, 1,233,333
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—, —, —, calcium for, 1,233,333
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—, —, —, process for, 1,233,333
—, —, —, sodium for, 1,233,333
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—, anthraquinone derivatives chlorinated with, 1,401,125
—, antimony made with, 1,245,137
—, antimony chloride made with, 1,445,082
—, antiseptic made with, 1,183,055
—, arsenic made with, 1,245,137
—, arsenic acid mfr. by, 1,447,203
—, arsenic acid solvent, 1,456,509
—, arsenic chloride made with, 1,445,082
—, arsenic sulfide solvent, 1,456,509
—, arsenic trisulfide, paraffin oil and, arsenical solution contg., 1,456,509
—, —, —, insecticide contg., 1,456,509
—, —, —, wood, preservative for, contg., 1,456,509
—, arsenical solution prepared with, 1,456,509
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—, —, waterproofing for, made with, 1,194,558
—, barium permanganate made with, 1,453,562
—, benzene made with, 1,282,906
—, benzene, bromination of using, 1,191,916
—, bismuth made with, 1,245,137
—, bivinyl made with, 1,282,906
—, brine, recovery from of, chlorine for, 1,473,295
—, —, —, light, actinic, for, 1,473,295
—, —, —, process for, 1,473,295
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—, 1-brom-4-hydroxy-anthraquinone made with, 1,401,125
—, bromindigo made with, 1,473,887
—, bromine from, process for, 1,323,173
—, bromine solution made with, 1,183,055
—, brom-methyl 2-phenyl-4-quinolyl ketone made with, 1,434,306
—, *a*-brom-toluene made with, 1,384,909
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—, butene made with, 1,234,886
—, cadmium made with, 1,245,137
—, camphor made with, 1,313,661
—, catalyst, artificial resin formed with, 1,448,556
—, —, cellulose acetate made with, 1,296,847
—, —, cellulose esters made with, 1,296,847
—, —, diphenylamine made with, 1,314,538
—, —, iron as, made with, 1,489,497
—, —, oleoresin, artificial, made with, 1,469,709
—, —, phenol ethers made with, 1,469,709
—, —, resin, artificial, made with, 1,469,709
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—, cellulose acetate made with, 1,347,801
—, cellulose aceto-nitrate made with, 1,168,164
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—, cellulose nitrate fire-proofed with, 1,323,792
—, cellulose nitrate treated with, 1,323,792
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—, —, ethyl cellulose made with, 1,188,376
—, —, methyl cellulose made with, 1,188,376
—, 2-chlor-ethanol made with, 1,234,886
—, chlorhydrins made with, 1,234,886
—, chlorides made with, 1,445,082
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—, *p*-cymol made with, 1,433,666
—, dibromfluorescein in prepared with, 1,455,495
—, dibromindigo made with, 1,473,887
—, 1.3-dibrom-2-methyl-butane made with, 1,144,237
—, *a.a*-dibrom-toluene made with, 1,384,909
—, dibrom-xylene made with, 1,198,356; 1,237,652
—, *N*-dihydro-1.2.2′.1′-anthraquinoneazine, chlorine derivative made with, 1,317,160
—, diolefin made with, 1,282,906
—, disinfectant made with, 1,183,055
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—, dye made with, 1,317,160
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—, dyestuff brominated with, 1,461,435
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—, ethyl alcohol made with, 1,234,886
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—, 5-ethyl-5-phenyl-hydantoin made with, 1,285,703
—, extracting, apparatus for, 1,376,610
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—, ferrocyanides converted to ferricyanides by, 1,328,938
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—, fireproofing made with, 1,194,558
—, gasolene made with, 1,235,523; 1,282,906
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—, germicide made with, 1,183,055
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—, heater, chemical, made with, 1,506,323
—, heptabromindigo made with, 1,473,887
—, hexabromindigo made with, 1,473,887
—, hydrobromic acid made with, 1,380,084
—, hydrobromic acid from hydrogen and, 1,398,596
—, hydrobromic acid from sulfur dioxide and, 1,430,035
—, hydrocarbons brominated with, 1,384,909
—, hydrocarbons, bromination of using, 1,191,916
—, —, olefin, made with, 1,234,886
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—, isoprene made with, 1,282,906
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—, *d*-mannose made with, 1,478,588
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—, —, iron(ic) bromide for, 1,141,921
—, —, iron(ous) bromide for, 1,141,921
—, —, nitrogen tetroxide for, 1,267,638
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—, —, potassium carbonate for, 1,513,821
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—, —, sodium bromate for, 1,141,922
—, —, sodium bromide for, 1,141,922
—, —, sodium carbonate for, 1,513,821
—, —, sodium carbonate, solutions contg., for, 1,184,806
—, —, sodium chloride, solutions contg., for, 1,184,806
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—, —, sodium sulfate, solutions contg., for, 1,184,806
—, —, sulfuric acid for, 1,141,922
—, metal chloride made with, 1,474,479
—, methylamine, methylamine made with, 1,489,380
—, molded article made with, 1,448,556
—, mono-brom-mono-chlor-ethane from chlorine and, 1,306,472
—, octabromindigo made with, 1,473,887
—, octinebromarsonic acid (?) made with, 1,201,692
—, olefin made with, 1,282,906
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—, oxyacids of, gold made with, 1,193,197
—, —, metal, precious, made with, 1,193,197
—, —, silver made with, 1,193,197
—, ozone, water contg., made with, 1,197,640
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—, paint, anti-fouling, made with, 1,456,509
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—, Paris green solvent, 1,456,509
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—, pentyl bromide made with, 1,317,359
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—, petracin made with, 1,308,060
—, petroleum, bromination of using, 1,191,916
—, phenol ketone condensate made with, 1,448,556
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—, piperylene made with, 1,282,906
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—, propionic anhydride made with, 1,195,227
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—, therapeutic compound made with, 1,250,345
—, thorium hydroxide made with, 1,182,880
—, thorium oxalate made with, 1,182,880
—, thorium oxide made with, 1,182,880
—, thorium pyrophosphate made with, 1,182,880
—, thorium sulfate made with, 1,182,880
—, tin chloride made with, 1,445,082
—, titanium tetrabromide from, 1,350,932
—, toluene brominated with, 1,384,909
—, toulene, bromination of using, 1,191,916
—, tribromindigo made with, 1,473,887
—, 2.3.8-tribrom-juglone made with, 1,327,260
—, *a.a.a*-tribrom-toluene made with, 1,384,909
—, trimethyl-ethylene-dibromide made with, 1,298,929
—, tuberculosis, substance for treatment of, made with, 1,250,345
—, vinyl derivatives made with, 1,234,886
—, vulcanization accelerator made with, 1,413,172; 1,436,894; 1,453,515
—, vulcanization process using, 1,249,180; 1,249,181
—, water, hydrogen dioxide in, made with, 1,197,640
—, —, ozone in, made with, 1,197,640
—, —, removal from of, process for, 1,197,640
—, —, —, zeolite for, 1,197,640
—, —, —, zeolite, artificial, for, 1,197,640
—, —, —, —, "cerium," for, 1,197,640
—, —, —, —, "cobalt," for, 1,197,640
—, —, —, —, "copper," for, 1,197,640
—, —, —, —, "lead," for, 1,197,640
—, —, —, —, "nickel," for, 1,197,640
—, water gas made with, 1,506,323
—, waterproofing made with, 1,194,558
—, water purified using, 1,197,640
—, wood, preservative for, prepared with, 1,456,509
—, wool treated with, 1,389,274; 1,389,275
—, zinc made with, 1,245,137
—, zinc chloride made with, 1,445,082
—, zinc dimethyldithiocarbamate oxidized with, 1,453,515
Bromine chloride, cellulose acetate made with, 1,347,801
Bromine compound, catalyst, iron as, made with, 1,489,497
—, catalyst poison, 1,489,497; 1,510,598
—, condiment contg., 1,513,298
—, iron, catalyst, made with, 1,489,497
—, kelp product contg., 1,513,298
—, organic, emulsions of, mfr. of, castor oil for, 1,229,681
—, —, —, castor oil, alkali compounds of, for, 1,229,681
—, —, —, —, cresols for, 1,229,681
—, —, —, —, naphthols for, 1,229,681
—, —, —, —, phenols for, 1,229,681
—, —, —, —, process for, 1,229,681
—, —, —, —, soap, castor oil, for, 1,229,681
—, —, —, —, sodium hydroxide for, 1,229,681
—, therapeutic product contg., 1,513,298
Bromine solution, mfr. of, bromine for, 1,183,055
—, —, glycerol for, 1,183,055
—, —, process for, 1,183,055
—, —, rock candy for, 1,183,055
—, —, tannic acid for, 1,183,055
—, —, tannin for, 1,183,055
—, —, trihydroxybenzoic acid for, 1,183,055
4-Bromin-1-oxy-2-naphthoyl-o-benzoic acid, see 2-(4'-Brom-1'-hydroxy-2'-naphthoyl)-benzoic acid
Bromisatin, dyestuff made with, 1,266,092
a-Brom-isovalerianyl chloride, see a-Brom-isovaleryl chloride
a-Brom-isovalerianyl ethyl urethane, see Ethyl (a-brom-isovaleryl)-carbamate
a-Brom-isovalerianyl urethane, see Ethyl (a-brom-isovaleryl)-carbamate
a-Brom-isovaleryl-p-aminophenol allyl ether, see p-Allyloxy-a-brom-isovaleranilide
a-Brom-isovaleryl bromide, *p*-allyloxy-*a*-brom-isovaleranilide made with, 1,263,238
a-Brom-isovaleryl chloride, ethyl (*a*-brom-isovaleryl)-carbamate made with, 1,237,413
Brom-ketopinin acid, brom-norcamphor made with, 1,169,316
Brom-methane, see Methyl bromide
1-Brom-2-methylamine-naphthylene hydrochloride, preparation of, 1,431,470
4-Brom-2-methyl-butane, 1.3-dibrom-2-methyl-butane made with, 1,144,237
1-Brom-N-methyl-2-naphthylamine, mfr. of, aldehydes for, 1,431,470
—, —, *N*-benzal-1-brom-2-naphthylamine for, 1,431,470
—, —, benzene for, 1,431,470
—, —, dimethyl sulfate for, 1,431,470
—, —, hydrochloric acid for, 1,431,470
—, —, nitrobenzene for, 1,431,470
—, —, process for, 1,431,470
—, —, sodium carbonate for, 1,431,470
—, —, sodium nitrite for, 1,431,470
—, —, tin for, 1,431,470
—, —, toluene for, 1,431,470
—, —, xylene for, 1,431,470
2-Brom-4-methylnitramino-3.5-dinitro-benzene-1-arsenic acid, see 2-Brom-3.5-dinitro-4-methylnitramino-benzenearsonic acid

Brom-methyl 2-phenyl-4-quinolyl ketone, (diethylaminomethyl) (2-phenyl-4-quinolyl) ketone made with, 1,434,306
—, (dimethylaminomethyl) (2-phenyl-4-quinolyl) ketone made with, 1,434,306
—, mfr. of, acetic acid for, 1,434,306
—, —, bromine for, 1,434,306
—, —, ethyl 2-phenyl-4-quinolyl acetate for, 1,434,306
—, —, hydrobromic acid for, 1,434,306
—, —, methyl 2-phenyl-4-quinolyl ketone for, 1,434,306
—, —, process for, 1,434,306
—, piperidyl methyl 2-phenol-4-quinonyl ketone made with, 1,434,306
Brom-b-naphthisatine-a-chloride, see Brom-chlor-b-naphthisatin
1-Brom-12.3-naphththioindoxyls, mfr. of, 1-brom-2: 3-thionaphthisatin for, 1,492,054
—, —, process for, 1,492,054
5-Brom-2: 1-naphthiondoxyl, mfr. of, 5-brom-2: 1-thionaphthisatin for, 1,492,054
—, —, process for, 1,492,054
1-Brom-2-naphthol, 1-anilino-2-naphthol made with, 1,460,774
—, dyestuff made with, 1,436,770
—, 1-*p*-′-toluino-2-naphthol made with, 1,460,774
6-Brom-1.2-naphthoquinone, compound, $C_{24}H_{10}O_2N_2Br$, made with, 1,518,665
—, —, $C_{24}H_{12}O_4NBr$, made with, 1,518,665
—, —, $C_{38}H_{18}O_4N_3Br$, made with, 1,518,665
—, —, $C_{38}H_{19}O_4N_3$, made with, 1,518,665
—, dyestuff made with, 1,436,770; 1,518,665
3-Brom-1.2-naphthoquinone, dyestuff made with, 1,436,770; 1,518,665
3-Brom-*b*-naphthoquinone, dyestuff made with, 1,436,770
Brom nitroform, see Brom trinitro methane
Brom-norcamphor, mfr. of, keptonic acid for, 1,169,316
—, —, process for, 1,169,316
Bromochinol, see Dibromo-salicylate of quinine
Bromochloral, see Dichlorobromo-acetic aldehyde
Bromochloroform, see Dichloro-bromo-methane
Bromo-ethane, see Ethyl bromide
Bromo-ethyl, see Ethyl bromide
Bromoform, copper mineral, ore, separation from of using, 1,151,117
—, fire-extinguisher made with, 1,190,160; 1,190,161
—, hematite, ore, separation from of, using, 1,151,117
—, lead mineral, ore, separation from of, using, 1,151,117
—, limonite, ore, separation from of, using, 1,151,117
—, specific gravity of, 1,151,117
—, zinc mineral, ore, separation from of using, 1,151,117
—, *see also Tribrom-methane*
a-Bromohydrin, see 1.2-Propanediol
Bromol, see Tribromophenol
g-Bromo-propyl p-nitro-benzoate, see 3-Brom-propyl p-nitro-benzoate
4-Brom-2-toluidine, see 4-Brom-o-toluidine
a-Brompentane, see Amyl bromide (n)
Bromphenol, dyestuff from sulfur and, 1,450,463
—, phenol aldehyde condensate made with, 1,215,072
—, sulfur and, as dyestuff, mfr. of, 1,450,463
—, sulfurized compound of, mfr. of, 1,450,463
Brompheny lhydrazine, flotation of chalcocite by, 1,364,306
—, flotation of chalcopyrite by, 1,364,306
—, flotation of copper sulfide by, 1,364,306
—, flotation of minerals by, 1,364,306
—, flotation of porphyry ores by, 1,364,306
Bromphenylhydrazine hydrochloride, flotation of chalcocite by, 1,364,306
—, flotation of chalcopyrite by, 1,364,306
—, flotation of copper sulfide by, 1,364,306
—, flotation of minerals by, 1,364,306
—, flotation of porphyry ores by, 1,364,306
Bromphenylhydrazine sulfate, flotation of chalcocite by, 1,364,306
—, flotation of chalcopyrite by, 1,364,306
—, flotation of, copper sulfide by, 1,364,306
—, —, minerals of, 1,364,306
—, —, porphyry ores, 1,364,306
Brompicrin, mfr. of, 1,413,198
—, —, picric acid for, 1,413,198
—, —, process for, 1,413,198
—, *see also Tribrom-nitro-methane*
omega-Brom-*n*-propyl chlormethyl carbinol, 3-brom-*n*-propyl chlormethyl ketone made with, 1,150,251
—, mfr. of, bromethyl-magnesium-bromide for, 1,150,251
—, —, epichlorhydrin for, 1,150,251
—, —, process for, 1,150,251
3-Brom-*n*-propyl chlormethylketone, 3-chlormethyl-3-octanol made with, 1,150,251
—, 3-dimethylaminomethyl-3-octanol made with, 1,150,251; 1,150,580
—, 3-dimethylaminomethyl-6-octanol benzoate hydrochloride made with, 1,150,580
3-Brom-*n*-propyl chlormethyl chlormethyl ketone, mfr. of, *omega*-brom-*n*-propyl chlormethyl carbinol for, 1,150,251
—, —, process for, 1,150,251
Brompropylene, see 1.2-Dibrompropane
3-Brom-*n*-propyl ketone, 3-chlormethyl 3-octanol made with, 1,150,580
g-Brompropyl *p*-nitrobenzoate, *g*-(N.N-allyl-n-butyl) aminopropyl *p*-aminobenzoate made with, 1,476,934
—, g-(*N.N*-allyl-n-butyl) aminopropyl *p*-nitrobenzoate made with, 1,476,934
3-Brom-propyl *p*-nitro-benzoate, 3-(di-*sec*-butylamino)-propyl *p*-amino-benzoate made with, 1,513,730
Brom-purpurin, see Brom-trioxy-anthraquinone
Brompyrin, see Mono-brom-antipyrine
1-Brom 2:-3-thionaphthisatin, 1-brom 12:3-naphthathioindoxyls made with, 1,492,054
5-Brom-2:1-thionaphthisatin, 5-brom-2:1-naphthionindoxyl made with, 1,492,054
Brom-thymol blue, boric acid, determination in presence of nickel salts of, using, 1,504,207
—, soil tested using, 1,520,891
Brom thymol blue solution, preparation of, calcium hydroxide for, 1,520,891

Brom-toluene, gum made with, 1,513,802
—, plastic made with, 1,513,802
—, resin, artificial, made with, 1,513,802
—, sizing made with, 1,513,802
—, varnish made with, 1,513,802
—, waterproofing made with, 1,513,802
a-Brom-toluene, benzaldehyde made with, 1,272,522
—, benzyl carbohydrate made with, 1,504,178
—, benzyl cellulose made with, 1,451,330; 1,504,178
—, benzyl dextrin made with, 1,504,178
—, benzyl starch made with, 1,504,178
—, cellulose benzylated by, process for, 1,451,330
—, gum made with, 1,513,802
—, hydrocellulose benzylated by, process for, 1,451,330
—, mfr. of, bromine for, 1,384,909
—, —, bromine, toluene and sodium carbonate for, 1,384,909
—, —, process for, 1,384,909
—, —, sodium carbonate for, 1,384,909
—, —, toluene for, 1,384,909
—, nitrous acid made with, 1,272,522
—, plastic made with, 1,513,802
—, projectile made with, 1,517,554
—, resin, artificial, made with, 1,513,802
—, sodium bromide made with, 1,272,522
—, sizing made with, 1,513,802
—, varnish made with, 1,513,802
—, waterproofing made with, 1,513,802
Bromtoluene sulfonic acid, cresol sulfonic acid from, 1,321,271
4-Brom-*o*-toluidine, dyestuff made with, 1,493,577
b-Brom-triethylamine hydrobromide, ethyl *a*-(diethylaminoethyl)-acetoacetate made with, 1,429,922
Bromural, hypnotic, 1,493,182
—, *see also a-Brom-isovaleryl-urea*
a-Brom-iso-valeryl-p-aminophenol allyl ether, see p-Allyloxy-a-brom-isovaleranilide
Brom-*iso*-valerylbromide, (*a*-brom-*iso*-valeryl)-pseudourea-methyl ether made with, 1,126,432
a-Brom-iso-valeryl bromide, see a-Bromiso-valeryl bromide
Bromvaleryl chloride, tert-amyl bromvalerate made with, 1,123,572
(a-Brom-iso-valeryl)-isourea, see (a-Brom-iso-valeryl)-pseudourea
(*a*-Brom-*iso*-valeryl)-pseudourea-methyl ether, *a*-brom-*iso*-valeryl-urea made from, 1,126,432
—, mfr. of, brom-*iso*-valerylbromide for, 1,126,432
—, —, ether for, 1,126,432
—, —, process for, 1,126,432
—, —, pseudourea-methyl-ether for, 1,126,432
—, solvent for, alcohol as, 1,126,432
—, —, benzene as, 1,126,432
—, —, ether as, 1,126,432
a-Brom-*iso*-valeryl-urea, mfr. of, (*a*-brom-*iso*-valeryl)-pseudourea-methyl ether for, 1,126,432
Bronchio-pneumonia virus, cultivation of, artificial, media for, 1,391,579
Bronchitis, therapeutic compound for treatment of, mfr. of, apparatus for, 1,495,461
—, —, —, peat for, 1,495,461
—, —, —, process for, 1,495,461
—, treatment of, radium emanation solution for, 1,470,027
Bronze, alloys made from, 1,363,382
—, *aluminum-, see Aluminum bronze*
—, "antiquing," 1,428,170
—, asbestos cement slate coated with, process for, 1,258,282
—, asbestos composition coated with, process for, 1,258,282
—, battery, dry, made with, 1,366,095; 1,468,574
—, battery electrode made with, 1,366,095
—, bearing, antifriction, made with, 1,494,099
—, —, compacting, 1,446,332
—, —, rolling, 1,446,332
—, —, *see also Alloy, copper-tin-zinc*
—, bearing metal, substitute for, mfr. of, 1,431,233
—, beater, knife bar for, made with, 1,216,487
—, benzene made with apparatus of, 1,282,906
—, bivinyl made with apparatus of, 1,282,906
—, brick coated with, process for, 1,258,282
—, bronze powder made with, 1,347,928
—, brush, electric, made with, 1,202,818
—, —, electric generator, made with, 1,366,095
—, casting for, gypsum in mold for, 1,200,138
—, —, kaolin in mold for, 1,200,138
—, —, ocher in mold for, 1,200,138
—, —, pozzuolana in mold for, 1,200,138
—, —, ultramarine in mold for, 1,200,138
—, casting of, carbon for, 1,172,506
—, —, graphite and sand mold for, 1,172,506
—, —, graphite mold for, 1,172,506
—, —, iron mold for, 1,172,506
—, —, mold coating composition for, mfr. of, charcoal for, 1,218,394
—, —, —, —, clay, pipe, for, 1,218,394
—, —, —, —, coke dust for, 1,218,394
—, —, —, —, dextrin, for, 1,218,394
—, —, —, —, flour paste for, 1,218,394
—, —, —, —, process for, 1,218,394
—, —, —, —, starch for, 1,218,394
—, —, process for, 1,172,506
—, —, sand mold for, 1,172,506
—, —, sound, making, 1,351,051
—, cement, composition contg., coated with, process for, 1,258,282
—, circuit-breaker made with, 1,366,095
—, cleaner for, mfr. of, process for, 1,270,105
—, cobalt, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, iridium in, composite sheet of and made with, 1,130,077
—, cobalt alloy, nickel in, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, —, platinum, composite sheet of and made with, 1,130,077

Bronze, cobalt alloy, nickel in, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, —, iridium in, composite sheet of and made with, 1,130,077
—, coloring, 1,428,170
—, composition of, copper 94%, tin 6%, 1,326,775
—, contact point made with, 1,130,077
—, copper in, 1,326,775
—, *copper, see Copper bronze*
—, copper covered, mfr. of, process for, 1,125,163
—, copper(ous) oxide from, 1,402,986
—, diaphragm made with, 1,366,095
—, diolefin made with apparatus of, 1,282,906
—, dissolving, chlorine and copper chloride for, 1,353,773
—, ethane made with apparatus of, 1,282,906
—, ethylene made with apparatus of, 1,282,906
—, felt coated with, process for, 1,258,282
—, gasolene made with apparatus of, 1,282,906
—, gauze, brush, commutator, made with, 1,198,873
—, golf ball, mold for, made with, 1,491,816
—, gypsum, composition contg., coated with, process for, 1,258,282
—, hardness increased of, process for, 1,326,775
—, heat treatment of, lead for, 1,520,744
—, —, potassium chloride for, 1,520,744
—, —, process for, 1,520,744
—, —, sodium carbonate for, 1,520,744
—, hydrogen in, eliminating, 1,351,031
—, imitation, copper alloy as, 1,168,962
—, —, mfr. of, process for, 1,217,660
—, ink contg., 1,439,695; 1,439,696
—, iridium, platinum alloy contg., cobalt, composite sheet of made with, 1,130,077
—, —, —, iron, composite sheet of and made with, 1,130,077
—, —, —, iron alloy, composite sheet of and made with, 1,130,077
—, —, —, nickel, composite sheet of and made with, 1,130,077
—, —, —, nickel alloy, cobalt in, composite sheet of and made with, 1,130,077
—, —, —, steel, composite sheet of and made with, 1,130,077
—, —, —, steel alloy, composite sheet of and made with, 1,130,077
—, iron, coating of using, 1,156,169
—, —, compound body of and, mfr. of, process for, 1,180,248; 1,180,249
—, —, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, iridium in, composite sheet of and made with, 1,130,077
—, —, sheet, corrosion resistant, made with, 1,144,106
—, iron alloy, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
Bronze, iron alloy, platinum alloy, iridium in, composite sheet of and made with, 1,130,077
—, iron alloy coated with, mfr. of, copper(ic) oxide for, 1,197,616
—, —, —, process for, 1,197,616
—, —, —, tin(ous) oxide for, 1,197,616
—, iron coated with, 1,125,158
—, —, mfr. of, copper(ic) oxide for, 1,197,616
—, —, —, process for, 1,197,616
—, —, —, tin(ous) oxide for, 1,197,616
—, isoprene made with, apparatus of, 1,282,906
—, kerosene made with apparatus of, 1,282,906
—, lead coated, mfr. of antimony for, 1,501,293
—, —, —, hydrochloric acid for, 1,501,293
—, —, —, lead for, 1,501,293
—, —, —, nitric acid for, 1,501,293
—, —, —, phosphor-tin for, 1,501,293
—, —, —, phosphorus for, 1,501,293
—, —, —, phosphorus sulfide (P_4S_5), for, 1,501,293
—, —, —, process for, 1,501,293
—, —, —, sulfuric acid for, 1,501,293
—, —, —, zinc for, 1,501,293
—, —, —, zinc chloride for, 1,501,293
—, lightning arrester, electrode for, made with, 1,366,095; 1,488,936
—, lime, composition contg., coated with, process for, 1,258,282
—, manganese in, mfr. of, alloy, copper in for, 1,214,539
—, —, —, —, iron in for, 1,214,539
—, —, —, —, manganese in for, 1,214,539
—, —, —, —, phosphorus in for, 1,214,539
—, —, —, copper in, alloy contg., for, 1,214,539
—, —, — copper alloy, manganese in for, 1,214,539
—, —, —, ferro-manganese for, 1,214,539
—, —, —, iron in, alloy contg., for, 1,214,539
—, —, —, manganese for, 1,214,539
—, —, —, manganese in, alloy contg., 1,214,539
—, —, —, manganese, copper alloy contg., 1,214,539
—, —, —, phosphor-copper for, 1,214,539
—, —, —, phosphorus in, alloy contg., for, 1,214,539
—, —, —, process for, 1,214,539
—, mfr. of, copper for, 1,432,289
—, —, process for, 1,432,289
—, —, tin ore for, 1,432,289
—, melting of, iron alloy vessel for, 1,229,770
—, —, iron ladle for, 1,208,717
—, —, process for, 1,208,717
—, —, sodium chloride for, 1,208,717
—, —, steel ladle for, 1,208,717
—, mold, die casting, made with, 1,491,816
—, —, sand, made with, 1,153,231
—, nickel, iridium, platinum alloy, contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, iridium in, composite sheet of and made with, 1,130,077
—, nickel alloy, cobalt in, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077

Bronze, nickel alloy, cobalt in, platinum, composite sheet of and made with 1,130,077
—, —, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, —, iridium in, composite sheet of and made with, 1,130,077
—, oil, composition contg., coated with, process for, 1,258,282
—, olefin made with apparatus of, 1,282,906
—, papier-mache coated with, process for, 1,258,282
—, pasteboard coated with, process for, 1,258,282
—, piperylene made with apparatus of, 1,282,906
—, platinum, cobalt, composite sheet of and made with, 1,130,077
—, —, cobalt alloy, nickel in, composite sheet of and made with, 1,130,077
—, —, iron, composite sheet of and made with, 1,130,077
—, —, iron alloy, composite sheet of and made with, 1,130,077
—, —, nickel, composite sheet of and made with, 1,130,077
—, —, nickel alloy, cobalt in, composite sheet of and made with, 1,130,077
—, —, steel, composite sheet of and made with, 1,130,077
—, —, steel alloy, composite sheet of and made with, 1,130,077
—, platinum alloy, cobalt, composite sheet of and made with, 1,130,077
—, —, cobalt alloy, nickel in, composite sheet of and made with, 1,130,077
—, —, iridium in, cobalt, composite sheet of and made with, 1,130,077
—, —, —, cobalt alloy, nickel in, composite sheet of and made with, 1,130,077
—, —, —, iron, composite sheet of and made with, 1,130,077
—, —, —, iron alloy, composite sheet of and made with, 1,130,077
—, —, —, nickel, composite sheet of and made with, 1,130,077
—, —, —, nickel alloy, cobalt in, composite sheet of and made with, 1,130,077
—, —, —, steel, composite sheet of and made with, 1,130,077
—, —, —, steel alloy, composite sheet of and made with, 1,130,077
—, —, iron, composite sheet of and made with, 1,130,077
—, —, iron alloy, composite sheet of and made with, 1,130,077
—, —, nickel, composite sheet of and made with, 1,130,077
—, —, nickel alloy, cobalt in, composite sheet of and made with, 1,130,077
—, —, steel, composite sheet of and made with, 1,130,077
—, —, steel alloy, composite sheet of and made with, 1,130,077
—, preparing, 1,432,289
—, propylene made with apparatus of, 1,282,906
—, purifying, alloy for, 1,461,643
—, resin, composition contg., coated with, process for, 1,258,282
—, resistance, electric, made with, 1,366,095
Bronze, sandstone, calcareous coated with, process for, 1,258,282
—, spring, leaf, made with, 1,221,695
—, steel, compound body of and, mfr. of, process for, 1,180,248; 1,180,249
—, —, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum composite sheet of and made with, 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, iridium in, composite sheet of and made with, 1,130,077
—, steel alloy, iridium, platinum alloy contg., composite sheet of and made with, 1,130,077
—, —, platinum, composite sheet of and made with 1,130,077
—, —, platinum alloy, composite sheet of and made with, 1,130,077
—, —, —, iridium in, composite sheet of and made with, 1,130,077
—, steel coated with, 1,125,158; 1,156,169
—, —, mfr. of, copper(ic) oxide for, 1,197,616
—, —, —, process for, 1,197,616
—, —, —, tin(ous) oxide for, 1,197,616
—, stone, artificial, coated with, process for, 1,258,282
—, stone coated with, graphite for, 1,258,282
—, —, process for, 1,258,282
—, telephone transmitter made with, 1,366,095
—, tin in, 1,326,775
—, treatment of, copper alloy, magnesium in, for, 1,151,744
—, —, —, titanium in, for, 1,151,744
—, —, cupro-titanium for, 1,151,744
—, —, process for, 1,151,744
—, valve seat made of, 1,143,225
—, welding of, flux for, 1,502,144
—, *see also Alloy, Aluminum bronze; Copper alloy; Copper-tin-zinc; Phosphor-bronze; Phosphorus-bronze; Silicon bronze; Vanadium bronze*
Bronze alloy, formula, copper 87, tin 4.5-10, nickel 1-5, zinc 1-5, 1,457,288
Bronze balls, gasolene made with, 1,476,091
—, kerosene made with, 1,476,091
Bronze blue, coating composition made with, 1,492,027
—, rubber latex coagulated by, 1,492,027
Bronze casting, closing pores in, barium oxide for, 1,214,630
—, —, barium sulfate for, 1,214,630
—, —, calcium bisulfite for, 1,214,630
—, —, calcium oxide for, 1,214,630
—, —, calcium sulfate for, 1,214,630
—, —, process for, 1,214,630
—, —, sulfuric acid for, 1,214,630
—, —, sulfurous acid for, 1,214,630
Bronze electrode, nitric acid made with, 1,517,727
—, nitrogen oxide made with, 1,517,727
Bronze foil, mfr. of, adhesive for, 1,152,060
—, —, paper for, 1,152,060
—, —, process for, 1,152,060
—, —, sulfuric acid for, 1,152,060
Bronze gauze, brush, electric, made with, 1,228,484

Bronze powder, airplane dope made with, 1,521,055; 1,521,056
—, airplane engine, manifold for, made with, 1,282,266; 1,282,267; 1,282,269
—, airplane propeller, copper coated, made with, 1,282,268
—, —, laminated metal coating for, made with, 1,282,268
—, airplane propeller made with, 1,335,846
—, airplane propellers coated with amyl acetate and, 1,335,176
—, airplane propellers copper plated by aid of, 1,335,846
—, alcohol, solidified, made with, 1,329,610
—, amethyst violet, screen, motion picture, made with, 1,266,778
—, article, copper coated, made with, 1,282,268
—, automobile radiators repaired with, 1,349,655
—, battery, dry, zinc can for made using, 1,477,109
—, binder for, asphalt as, 1,465,107
—, —, bitumen as, 1,465,107
—, —, carbon tetrachloride in, 1,465,107
—, —, glue as, 1,465,107
—, —, petroleum pitch as, 1,465,107
—, —, pitch as, 1,465,107
—, —, resin as, 1,465,107
—, —, shellac as, 1,465,107
—, —, shellac in alcohol as, 1,465,107
—, —, starch paste as, 1,465,107
—, —, trichlorethylene as, 1,465,107
—, bottle cap made with, 1,520,940
—, bronze powder varnish made with, 1,157,768
—, canvas, ornamented, made with, 1,202,430
—, celluloid substitute made with, 1,181,858
—, chiffon, decorating of, using, 1,496,743
—, cigar bands made with, 1,347,927; 1,347,928
—, cloth, decorating of, using, 1,496,743
—, colored leaf made with, 1,158,265
—, decalcomania made with, 1,212,392; 1,331,581
—, decorative product made with, 1,484,656
—, die, metallic, made with, 1,157,493
—, duPont No. 1 S., ink, printing, gold, made with, 1,471,746
—, duPont No. 3 S., ink, printing, gold, made with, 1,471,746
—, electrode, arc-light, made with, 1,148,189
—, electroplating composition for chinaware contg., 1,444,113
—, engine, internal combustion, manifold for, made with, 1,282,266; 1,282,267; 1,282,269
—, fabric, coated, made with, 1,210,375
—, —, ornamenting of, using, 1,202,430; 1,510,654
—, —, soil-proof, using, 1,510,654
—, felt, decorating of, using, 1,496,743
—, float made with, 1,492,349; 1,492,350
—, fuel, solidified, made with, 1,329,610
—, gear made with, 1,438,875
—, gold leaf made with, 1,267,445
—, gold leaf, imitation, made with, 1,158,265; 1,234,250; 1,387,068; 1,450,692
—, "Hemmerdinger's Pale Gold Lining," ink, printing, gold, made with, 1,471,746
—, "Hemmerdinger's Special No. 1," gold leaf, imitation, made with, 1,450,692
—, —, ink, gold, made with, 1,450,692
Bronze powder, "Hemmerdinger's Special No. 1," ink, printing, made with, 1,450,692; 1,489,356; 1,489,357
—, —, —, —, gold, made with, 1,471,746
—, hollow article made with, 1,492,350
—, ink made with, 1,511,816
—, ink, gold, made with, 1,450,692
—, —, printing, made with, 1,220,947; 1,450,692; 1,489,356; 1,489,357
—, —, —, gold, made with, 1,471,746
—, —, —, transfer, made with, 1,398,770; 1,511,816
—, lacquer made with, 1,437,170
—, leather, coating composition for, made with, 1,437,170
—, —, ornamented, made with, 1,202,430
—, "Lining," ink, gold, made with, 1,450,692
—, —, gold leaf, imitation, made with, 1,450,692
—, —, ink, gold, made with, 1,450,692
—, —, —, printing, made with, 1,450,692
—, lithographic master sheet prepared with, 1,416,706
—, lithographic plate made with, 1,155,352
—, mfr. of, bronze for, 1,347,927; 1,347,928
—, —, fat for, 1,347,927; 1,347,928
—, —, oil for, 1,347,927; 1,347,928
—, —, olive oil for, 1,347,927; 1,347,928
—, —, process for, 1,347,927; 1,347,928
—, —, water for, 1,347,927; 1,347,928
—, metal leaf made with, 1,188,068; 1,267,445
—, metal leaf, imitation, made with, 1,387,068; 1,414,115
—, metal leaf made with, cellulose nitrate solutions and, 1,387,068
—, paint contg. Japan, turpentine and, 1,367,888
—, paper, bronzed, made with, 1,223,399
—, paper coated with, 1,454,676; 1,465,107
—, plate, die-, made with, 1,157,493
—, printer's blanket made with, 1,210,375; 1,492,123
—, printing, aluminum base for, grain screen for, made with, 1,265,641
—, —, copper base for, grain screen for made with, 1,265,641
—, —, intaglio, grain screen for made with, 1,265,641
—, —, lithographic, grain screen for made with, 1,265,641
—, —, stone base for, grain screen for made with, 1,265,641
—, —, zinc base for, grain screen for, made with, 1,265,641
—, printing plate made with, 1,207,506; 1,302,919
—, printing plate, grain screen for made with, 1,265,641
—, —, halftone, made with, 1,507,049
—, protecting coating of, beeswax in composition for, 1,181,889
—, —, benzene in composition for, 1,181,889
—, —, benzine in composition for, 1,181,889
—, —, carnauba wax in composition for, 1,181,889
—, —, olive oil in composition for, 1,181,889
—, —, resin in composition for, 1,181,889
—, —, turpentine in composition for, 1,181,889
—, —, wax in composition for, 1,181,889
—, shellac lacquer contg., 1,440,678
—, silk, decorating of, using, 1,496,743
—, —, ornamented, made with, 1,202,430

Bronze powder, silk tulle, decorating of, using, 1,496,743
—, silver lead, imitation, made with, 1,387,068
—, sphere, hollow, made with, 1,492,349; 1,492,350
—, tapestries, ornamented, made with, 1,202,430
—, transfer metallic product made with, 1,444,345; 1,515,722
—, transfer-sheet made with, 1,280,399
—, varnish made with, 1,437,170
—, velvet, decorating of, using, 1,496,743
—, —, ornamented, made with, 1,202,430
—, water color contg., mucilage and, 1,358,996
—, wool fabric, decorating of, using, 1,496,743
—, *see also Copper bronze; Lining*
Bronze powder varnish, mfr. of, benzene for, 1,157,768
—, —, benzine for, 1,157,768
—, —, bronze powder for, 1,157,768
—, —, chlorethylene for, 1,157,768
—, —, coumarone resin for, 1,157,768
—, —, gasolene for, 1,157,768
—, —, process for, 1,157,768
Bronze roller, iron, lead, coating with of, using, 1,161,475
—, —, lead alloy, coating with of, using, 1,161,475
—, lead, iron coated with, using, 1,161,475
—, lead alloy, iron coated with, using, 1,161,475
Bronze ribbon, lubricator made with, 1,196,751
Bronze S. 5385, silk dyed with, 1,446,860
Bronze substitute, copper in, 1,277,989
—, iron in, 1,277,989
—, lead in, 1,277,989
—, mfr. of, process for, 1,468,828
—, nickel in, 1,277,989
—, phosphorus in, 1,277,989
—, zinc in, 1,277,989
Bronze wire netting, airplane covering material made with, 1,243,041; 1,243,654; 1,243,655
—, balloon covering material made with, 1,243,041; 1,243,654; 1,243,655
Bronzing fluid, cellulose acetate in, 1,418,347
—, cellulose nitrate in, 1,418,347
—, *see also Bronzing liquid*
Bronzing liquid, cellulose nitrate, preparing, 1,437,170
—, corn oil, glycerol and sodium silicate for, 1,452,445
—, glycerol, sodium silicate and oil for, 1,452,445
—, mfr. of, acetone for, 1,488,608
—, —, alcohol for, 1,488,608
—, —, benzene for, 1,488,608
—, —, cellulose acetate for, 1,488,608
—, —, cellulose formate for, 1,488,608
—, —, cotton seed oil for, 1,220,947
—, —, ethyl alcohol for, 1,488,608
—, —, ethylidene diacetate for, 1,488,608
—, —, ink, printing, for, 1,220,947
—, —, lead compound for, 1,220,947
—, —, lead oxide for, 1,220,947
—, —, linseed oil for, 1,220,947
—, —, manganese borate for, 1,220,947
—, —, methyl alcohol for, 1,488,608
—, —, olive oil for, 1,220,947
—, —, printer's varnish for, 1,220,947
Bronzing liquid, mfr. of, process for, 1,220,947; 1,488,608
—, —, rosin for, 1,220,947
—, —, sodium silicate for, 1,452,445
—, —, α-tetrachlor-ethane for, 1,488,608
—, —, toluene for, 1,488,608
—, —, tricresyl phosphate for, 1,488,608
—, motion picture screen made with, 1,149,940
—, sodium silicate, glycerol and oil for, 1,452,445
—, *see also Banana liquid; Bronze powder, binder for*
Bronzing paint, mfr. of, aluminum for, 1,158,962
—, —, amyl acetate for, 1,158,962
—, —, dihydroxy-diphenyl-dimethyl-methane for, 1,158,962
—, —, dihydroxy-diphenyl-dimethyl-methane aldehyde condensate for, 1,158,962
—, —, process for, 1,158,962
Brookite, celluloid made with, 1,365,882
—, celluloid colored with, 1,365,882
—, cellulose nitrate composition made with, 1,365,882
—, glass made with, 1,365,882
—, index of refraction of, 1,348,129
—, paint made with, 1,365,882
—, phenol aldehyde condensate made with, 1,365,882
—, plastic made with, 1,365,882
—, rubber made with, 1,365,882
—, *see also Octahedrite; Rutile; Titanium dioxide*
Broom-corn, coloring matter in, removing, 1,337,306
—, dyeing, auramine for, 1,337,306
—, —, crystal aniline for, 1,337,306
—, treating of, 1,337,306
Broom seed, sizing solution contg., 1,464,310
Broom straw, building blocks made with, 1,151,095
—, mortar made with, 1,151,095
—, plaster, gypsum, made with, 1,151,095
—, —, retarder for, made with, 1,151,095
—, plaster board made with, 1,151,095
—, textile made with, 1,151,095
—, treatment of, calcium hypochlorite for, 1,151,095
—, —, process for, 1,151,095
—, —, water for, 1,151,095
—, waste, roof covering contg., 1,369,911
—, —, wall covering contg., 1,369,911
Brophenin, see Brom-isovaleryl-phenocoll
Brosimum galactodendron, see Milk tree
Brosimum galactodendron latex, chewing gum made with, 1,240,875
—, chicle substitute made with, 1,240,875
Broth, hog cholera vaccine made using, 1,246,059
—, nutrient, paratyphoid germs, detection of using, 1,247,522
—, —, typhoid germs, detection of using, 1,247,522
Brovalol, see Bornyl bromovalerate
Brown, mineral, see Mineral brown
Brown coal, see Coal, brown

Brown coal generator tar, cresyl phosphates made with, 1,425,393
—, phenyl phosphates made with, 1,425,393
—, tolyl phosphates made with, 1,425,393
—, xylyl phosphates made with, 1,425,393
Brown coal tar derivatives, fuel, liquid, made with, 1,519,905
Brown flour, mfr. of, oatmeal flour for, 1,493,392
—, —, process for, 1,493,392
—, —, wheat for, 1,493,392
—, —, wheat germs for, 1,493,392
Brown gold, glass, gold ornamented, made with, 1,205,728
—, gold, glass ornamented with, made with, 1,205,728
Brown hematite, see Limonite
Brown iron stone, see Limonite
Brown lead oxide, see Lead dioxide
Brown mint, see Spearmint
Brown ochre, see Yellow ochre
Brown oil vitriol, see Sulfuric acid, brown
Brown PM, see p-Amino-benzene-azo-m-phenylene-diamine, hydrochloride of
Brown Red, see Indian Red; Iron(ic) oxide
Brown S. 3945, silk, dyeing of, using, 1,446,860; 1,495,614
Brown spar, see Siderite
Brownstone, belt made with, 1,163,417
—, container made with, 1,163,417
—, leather substitute made with, 1,163,417
—, ship hull covering made with, 1,163,417
—, tent material made with, 1,163,417
—, *see also Manganese dioxide; Sandstone*
Brucite, ceramic insulating material contg., 1,409,953
—, ceramic ware contg., 1,438,598
—, explosive contg., 1,464,667
—, explosives, explosion temperature of reduced with, 1,464,667
—, insulation, electric, made with, 1,438,598
—, *see also Magnesium hydroxide*
Brunner-Dite-salt, see Mercury potassium sulfide (Brunner-Ditte)
Brunswick black, pictures produced on enamelled surfaces with, 1,335,755
Brunswick green, paint made with, 1,451,092
Brush, bristle, mfr. of, alcohol for, 1,259,031
—, —, —, pitch for, 1,259,031
—, —, —, process for, 1,259,031
—, carbon, electric connection to, mfr. of, carbon for, 1,188,635
—, —, —, —, copper for, 1,188,635; 1,188,761
—, —, —, —, copper amalgam for, 1,188,635; 1,188,761
—, —, —, —, copper bronze for, 1,188,635; 1,188,761
—, —, —, —, copper bronze amalgam for, 1,188,635
—, —, —, —, copper wire for, 1,188,635
—, —, —, —, mercury for, 1,188,635; 1,188,761
—, —, —, —, phenol-aldehyde condensate for, 1,453,793
—, —, —, —, process for, 1,188,635; 1,188,761
—, —, —, —, sodium silicate for, 1,188,635
—, —, —, —, sulfuric acid for, 1,188,761
—, —, mfr. of, process for, 1,307,738
Brush, carbon, mfr. of, see also Brush, electric
—, celluloid-back, mfr. of, acetone for, 1,472,165
—, —, —, amyl acetate for, 1,472,165
—, —, —, ethyl acetate for, 1,472,165
—, —, —, process for, 1,472,165
—, commutator, iron oxide removed from, process for, 1,259,121
—, —, manganese oxide removed from, process for, 1,259,121
—, —, mfr. of, bronze gauze for, 1,198,873
—, —, —, carbon for, 1,198,873; 1,299,846
—, —, —, copper for, 1,198,873
—, —, —, copper gauze for, 1,198,873
—, —, —, copper ribbon for, 1,198,873
—, —, —, copper wire for, 1,198,873
—, —, —, lampblack for, 1,259,121
—, —, —, paracoumarone for, 1,299,846
—, —, —, paraindene for, 1,299,846
—, —, —, pitch for, 1,198,873; 1,259,121
—, —, —, process for, 1,198,873; 1,299,846
—, —, —, tar for, 1,259,121
—, —, purification of, carbon tetrachloride for, 1,259,121
—, —, —, chlorine for, 1,259,121
—, —, —, methane for, 1,259,121
—, —, —, natural gas for, 1,259,121
—, —, —, process for, 1,259,121
—, —, silicon dioxide removed from, process for, 1,259,121
—, —, *see also Brush, electric; Commutator brush*
—, *dynamo, see Brush, electric*
—, electric, mfr. of, alcohol for, 1,177,119
—, —, —, alloy for, 1,202,818; 1,281,716
—, —, —, aluminum for, 1,222,999
—, —, —, antimony, copper alloy contg., 1,222,999
—, —, —, bismuth-cadmium amalgam for, 1,177,119
—, —, —, brass for, 1,202,818
—, —, —, brass gauze for, 1,228,484
—, —, —, bronze for, 1,202,818
—, —, —, bronze gauze for, 1,228,484
—, —, —, carbon for, 1,177,119; 1,202,818; 1,228,484; 1,281,716
—, —, —, cellulose nitrate for, 1,177,119
—, —, —, copper for, 1,177,119; 1,202,818; 1,228,484; 1,281,716
—, —, —, copper alloy, antimony in, for, 1,222,999
—, —, —, —, lead in, for, 1,222,999
—, —, —, —, nickel in, for, 1,222,999
—, —, —, —, tin in, for, 1,222,999
—, —, —, copper amalgam for, 1,177,119; 1,281,716
—, —, —, copper gauze for, 1,228,484
—, —, —, glycerol for, 1,177,119
—, —, —, graphite for, 1,177,119; 1,202,818; 1,228,484; 1,281,716
—, —, —, hydrogen for, 1,177,119
—, —, —, lead for, 1,202,818
—, —, —, lead, copper alloy contg., 1,222,999
—, —, —, lead alloy for, 1,202,818
—, —, —, mercury for, 1,281,716
—, —, —, metal for, 1,202,818; 1,281,716
—, —, —, metal, anti-friction for, 1,228,484
—, —, —, nickel, copper alloy contg., 1,222,999

Brush, electric, mfr. of, 1,177,119; 1,202,818; 1,222,999; 1,226,130; 1,228,484; 1,281,716
—, —, —, soapstone for, 1,281,716
—, —, —, solder for, 1,226,130
—, —, —, starch for, 1,177,119
—, —, —, syrup for, 1,177,119
—, —, —, tin for, 1,228,484
—, —, —, tin, copper alloy contg., for, 1,222,999
—, —, —, tin alloy for, 1,202,818
—, —, —, tragacanth for, 1,177,119
—, —, —, tungsten for, 1,177,119
—, —, —, wire gauze for, 1,226,130; 1,228,484
—, —, —, zinc for, 1,202,818
—, —, —, zinc alloy for, 1,202,818
—, —, *see also Brush, carbon*
—, electric generator, mfr. of, aluminum for, 1,366,095
—, —, —, asphalt for, 1,366,095
—, —, —, brass for, 1,366,095
—, —, —, bronze for, 1,366,095
—, —, —, carbon for, 1,366,095
—, —, —, cement for, 1,366,095
—, —, —, charcoal for, 1,366,095
—, —, —, copper for, 1,366,095
—, —, —, copper, steel coated with, for, 1,366,095
—, —, —, enamel for, 1,366,095
—, —, —, glue for, 1,366,095
—, —, —, graphite for, 1,366,095
—, —, —, gum for, 1,366,095
—, —, —, metal for, 1,366,095
—, —, —, paraffin for, 1,366,095
—, —, —, process for, 1,366,095
—, —, —, shellac for, 1,366,095
—, —, —, steel, cold-rolled, for, 1,366,095
—, —, —, —, copper coated, for, 1,366,095
—, —, —, varnish, waterproof, for, 1,366,095
—, —, —, wax for, 1,366,095
—, —, —, zinc for, 1,366,095
—, *electric motor, see Brush, electric*
—, flexible, mfr. of, process for, 1,232,075
—, —, —, rubber for, 1,232,075
—, mfr. of, bristle for, 1,202,244
—, —, cellulose acetate for, 1,156,969
—, —, dihydroxy-diphenyl-dimethyl-methane for, 1,156,969
—, —, graphite for, 1,202,244
—, —, process for, 1,156,969; 1,202,244
—, —, rubber for, 1,202,244
—, —, copper powder for, 1,254,056
—, motor, mfr. of, copper powder for, 1,254,056
—, —, —, graphite for, 1,254,056
—, —, —, process for, 1,254,056
—, *tooth, see Tooth brush*
—, *see also Tooth brush*
Brush back, mfr. of, aluminum oxychloride for, 1,175,425
—, —, barium oxychloride for, 1,175,425
—, —, camphor for, 1,175,425
—, —, cellulose sulfite liquor for, 1,175,422; 1,175,425
—, —, kaolin for, 1,175,425
—, —, magnesium chloride for, 1,175,425
—, —, magnesium oxide for, 1,175,425
—, —, magnesium oxychloride for, 1,175,425
—, —, metal chloride for, 1,174,425
—, —, metal oxide for, 1,175,425
Brush back, mfr. of, metal oxychloride for, 1,175,425
—, —, process for, 1,175,422; 1,175,425
—, —, silica for, 1,175,425
—, —, wood flour for, 1,175,425
—, —, "xylozo" for, 1,175,425
—, —, zinc oxychloride for, 1,175,425
Bryozoa, paint resistant to growth of, see Paint, anti-fouling
Bub, see Yeast
Bucholzite, see Sillimanite
Bucket, paper for, mfr. of, 1,307,405
Buckhorn, oxymethylanthraquinone(?) in, 1,167,230
Buckhorn bark, buckhorn extract made with, 1,167,230
Buckhorn extract, mfr. of, alcohol for, 1,167,230
—, —, buckhorn bark for, 1,167,230
—, —, ether for, 1,167,230
—, —, process for, 1,167,230
—, —, sugar, milk, for, 1,167,230
Bucking vegetable matter, alkali carbonate for, 1,156,048
—, alkali hydroxide for, 1,156,048
—, anthraquinone derivative for, 1,156,048
—, anthraquinone disulfonic acid for, 1,156,048
—, anthraquinone sulfonic acid for, 1,156,048
—, borax for, 1,156,048
—, nitrobenzene sulfonic acid for, 1,156,048
—, nitrotoluene sulfonic acid for, 1,156,048
—, potassium permanganate for, 1,156,048
—, process for, 1,156,048
—, sodium anthraquinone disulfonate for, 1,156,048
—, sodium anthraquinone sulfonate for, 1,156,048
—, sodium bichromate for, 1,156,048
—, sodium nitrobenzene sulfonate for, 1,156,048
—, sodium phosphate for, 1,156,048
Buckram, screen, motion picture, made with, 1,152,620
—, shoe tongue pad made with, 1,255,616
Buckskin substitute, mfr. of, process for, 1,305,621
Buckwheat bran, dyestuff made with, 1,244,795
Buckwheat flour, flour, self-rising, made with, 1,244,867
—, starch, pebble-like, made with, 1,129,440
Buckwheat starch, binder contg., 1,318,106
—, calcimine, binder for contg., 1,318,106
—, glue contg., 1,318,106
—, oil, emulsifier for contg., 1,318,106
—, size contg., 1,318,106
Buffalo Rubine, see a-Naphthalene-azo-a-naphthol-disulfonic acid, sodium salt of
Buffer, mfr. of, fabric for, 1,217,848
—, —, process for, 1,217,848
—, —, straw board for, 1,217,848
Buffing composition, mfr. of, almond oil for, 1,276,509; Re-14,568
—, —, barytes for, 1,276,509; Re-14,568
—, —, castor oil for, 1,276,509; Re-14,568
—, —, clay for, 1,276,509; Re-14,568
—, —, cocoanut oil for, 1,276,509; Re-14,568
—, —, cod liver oil for, 1,276,509; Re-14,568
—, —, cod oil for, 1,276,509; Re-14,568
—, —, corn oil for, 1,276,509; Re-14,568

Buffing composition, mfr. of, cotton seed oil for, 1,276,509; Re-14,568
—, —, crocus for, 1,276,509; Re-14,568
—, —, fish oil for, 1,276,509; Re-14,568
—, —, grease for, 1,276,509; Re-14,568
—, —, Indian red for, 1,276,509; Re-14,568
—, —, lard for, 1,276,509; Re-14,568
—, —, linseed oil for, 1,276,509; Re-14,568
—, —, menhaden oil for, 1,276,509; Re-14,568
—, —, oil for, 1,276,509; Re-14,568
—, —, oil, animal, for, 1,276,509; Re-14,568
—, —, —, vegetable, for, 1,276,509; Re-14,568
—, —, olive oil for, 1,276,509; Re-14,568
—, —, peanut oil for, 1,276,509; Re-14,568
—, —, soya bean oil for, 1,276,509; Re-14,568
—, —, tallow for, 1,276,509; Re-14,568
—, —, terra alba for, 1,276,509; Re-14,568
—, —, tung oil for, 1,276,509; Re-14,568
—, —, whale oil for, 1,276,509; Re-14,568
—, —, whiting for, 1,276,509; Re-14,568
Buff S, 5842, silk dyed with, 1,446,860
Buff split, see Skins
Bugs, destroying of, insecticide for, 1,141,961
—, destruction of, apparatus for, 1,513,137; 1,513,138
—, —, hydrocarbon for, 1,513,138
—, —, process for, 1,513,137; 1,513,138
—, killing of, lactic acid for, 1,499,164
—, —, potassium bisulfite for, 1,499,164
—, —, potassium lactate for, 1,499,164
—, —, sodium bisulfite for, 1,499,164
—, —, sodium dioxide for, 1,499,164
—, —, sodium lactate for, 1,499,164
Buhach, fly destroying composition made with, 1,207,766
—, insect destroying composition made with, 1,207,766
—, mosquito destroying composition made with, 1,207,766
Building, cleaning of, apparatus for, 1,141,243
—, —, process for, 1,141,243
—, —, soap, liquid, for, 1,141,243
—, —, —, potassium, for, 1,141,243
—, —, —, soft, for, 1,141,243
—, *protective covering for, see Roofing material*
Building block, casting of, apparatus for, 1,163,198
—, —, fabric for, 1,163,198
—, —, linen for, 1,163,198
—, —, linen, oiled, for, 1,163,198
—, —, process for, 1,163,198
—, formula, furnace slag 79.8%, cement 20%, potassium permanganate 0.175%, hydrofluoric acid 0.025%, 1,363,045
—, mfr. of, alcohol for, 1,305,993
—, —, alum for, 1,193,952
—, —, ammonium carbonate for, 1,305,993
—, —, ammonium chloride for, 1,305,993
—, —, ammonium sulfate for, 1,305,993
—, —, analcite basalt for, 1,157,437
—, —, apparatus for, 1,265,655
—, —, asbestos for, 1,193,952
—, —, ashes, cement, cork and sodium silicate for, 1,428,811
—, —, asphalt for, 1,190,615; 1,265,655
Building block, mfr. of, asphalt, sulfur bearing, for, 1,265,655
—, —, basalt for, 1,157,437
—, —, bean straw for, 1,151,095
—, —, beech for, 1,265,655
—, —, bitumen for, 1,265,655
—, —, blast furnace slag for, 1,418,810
—, —, borax for, 1,305,993
—, —, broom straw for, 1,151,095
—, —, calcium carbonate for, 1,157,437
—, —, calcium chloride for, 1,305,993
—, —, calcium hydroxide for, 1,157,437; 1,477,276
—, —, calcium phosphate for, 1,157,437
—, —, cardboard for, 1,305,993
—, —, cement for, 1,169,985; 1,170,791; 1,212,840; 1,486,894
—, —, cement, hydraulic, for, 1,193,952
—, —, cement rock for, 1,146,532
—, —, chalk for, 1,193,952
—, —, cinder for, 1,212,840; 1,486,894
—, —, clay for, 1,157,437; 1,169,985; 1,172,225; 1,190,615; 1,211,445
—, —, clay, fire, for, 1,193,952
—, —, cloth for, 1,305,993
—, —, coal, anthracite, ash, for, 1,477,276
—, —, —, —, cinder, for, 1,477,276
—, —, —, —, clinker, for, 1,477,276
—, —, coal ash for, 1,193,952; 1,212,840
—, —, coal cinder for, 1,212,840
—, —, concrete for, 1,169,985; 1,170,791; 1,486,894
—, —, copper sulfate for, 1,190,615
—, —, dolomitic lime for, 1,157,437
—, —, earth for, 1,172,225; 1,190,615
—, —, feldspar for, 1,157,437
—, —, feldspar, potassium, for, 1,157,437
—, —, feldspathold rock for, 1,157,437
—, —, glass for, 1,211,445
—, —, glue for, 1,170,791
—, —, granite for, 1,170,791
—, —, graphite for, 1,193,952
—, —, gravel for, 1,170,791
—, —, gypsum for, 1,157,437; 1,193,952; 1,211,445
—, —, hydrochloric acid for, 1,211,445
—, —, lac for, 1,305,993
—, —, lead protoxide for, 1,193,952
—, —, leucite for, 1,157,437
—, —, leucite basalt for, 1,157,437
—, —, leucite rock for, 1,157,437
—, —, lime for, 1,157,437; 1,193,952; 1,211,445; 1,477,276
—, —, lime, "fat flower of," for, 1,477,276
—, —, limestone for, 1,157,437
—, —, magnesia for, 1,157,437
—, —, magnesium cement rock for, 1,146,532
—, —, maple for, 1,265,655
—, —, marl for, 1,193,952
—, —, mica, potassium, for, 1,157,437
—, —, microline for, 1,157,437
—, —, nephelite syenite for, 1,157,437
—, —, oak for, 1,265,655
—, —, orthoclase for, 1,157,437
—, —, paper for, 1,305,993
—, —, pebbles for, 1,169,985
—, —, phosphate rock for, 1,146,532

Building block, mfr. of, phosphorite for, 1,146,532
—, —, pine gum for, 1,172,225
—, —, pine needles for, 1,172,225
—, —, pine sap for, 1,172,225
—, —, pine straw for, 1,172,225
—, —, pine wood for, 1,172,225
—, —, plaster of Paris for, 1,193,952
—, —, potassium hydroxide for, 1,305,993
—, —, process for, 1,146,532; 1,151,095; 1,157,437; 1,169,985; 1,170,791; 1,172,225; 1,190,615; 1,193,952; 1,211,445; 1,212,840; 1,265,655; 1,305,993; 1,418,160; 1,421,751; 1,477,276; 1,486,894
—, —, pumice for, 1,193,952
—, —, pyroligneous acid for, 1,265,655
—, —, rag for, 1,305,993
—, —, rock for, 1,169,985 1,170,791
—, —, sand for, 1,190,615; 1,193,952; 1,211,445
—, —, sawdust for, 1,305,993
—, —, slag for, 1,169,985
—, —, sodium carbonate for, 1,305,993
—, —, sodium silicate for, 1,193,952
—, —, stone for, 1,169,985; 1,190,615
—, —, sulfur for, 1,265,655
—, —, triammonium phosphate for, 1,305,993
—, —, wood for, 1,265,655
—, —, wood, hard, for, 1,265,655
—, —, zinc sulfate for, 1,193,952
—, mold for, mfr. of, apparatus for, 1,154,255
—, —, —, process for, 1,154,255
—, —, —, rubber for, 1,154,255
—, *toy, see Toy building block*
—, *see also Brick; Molded article*
Building board, mfr. of, cement for, 1,227,767
—, —, granite for, 1,227,767
—, —, mineral wool for, 1,227,767
—, —, process for, 1,227,767
—, —, stone for, 1,227,767
—, *see also Fiber board*
Building construction, process for, 1,487,212
—, clay used for, 1,487,212
Building fabric, fireproof, mfr. of, 1,436,914
Building felt, mfr. of, apparatus for, 1,511,475
—, —, asphalt for, 1,511,475
—, —, paper stock for, 1,511,475
—, —, pitch for, 1,511,475
—, —, process for, 1,511,475
—, —, rag stock for, 1,511,475
—, —, sawdust for, 1,511,475
—, —, slate for, 1,511,475
—, —, stone for, 1,511,475
—, —, straw for, 1,511,475
—, —, wood for, 1,511,475
—, *see also Felt, building; Roofing*
Building material, asphalt in, 1,441,861
—, asphalt and clay in, 1,442,764
—, cement, wood fiber, "Acme" gypsum, weed stalks, 1,407,608
—, clay and asphaltum in, 1,442,764
—, finish coating for, asphalt in, 1,282,460
—, —, cinder in, 1,282,460
—, —, granite in, 1,282,460
—, —, gravel in, 1,282,460
—, —, limestone in, 1,282,460
—, —, marble in, 1,282,460
—, —, sand in, 1,282,460
Building material, finish coating for, slag in, 1,282,460
—, glaze on, producing, 1,402,412
—, mfr. of, alum for, 1,231,921; 1,519,311
—, —, aluminum oxide for, 1,183,255; 1,505,206
—, —, aluminum powder for, 1,357,375
—, —, aluminum silicate for, 1,505,206
—, —, aluminum sulfate for, 1,256,324; 1,408,760
—, —, apparatus for, 1,220,550; 1,498,401; 1,503,409; 1,518,842; 1,520,791
—, —, asbestos for, 1,183,694; 1,201,535; 1,211,028; 1,218,217; 1,288,158; 1,288,159; 1,408,760; 1,484,370; 1,503,409; 1,513,922; 1,516,045; 1,520,791
—, —, asbestos paper for, 1,218,217
—, —, asphalt for, 1,183,694; 1,288,158; 1,288,159; 1,353,619; Re-15,949; 1,362,888; 1,382,095; 1,476,078; 1,488,186; 1,498,401; 1,505,206
—, —, barium chloride for, 1,256,324
—, —, benzene for, 1,220,401; 1,353,619; Re-15,949
—, —, benzine for, 1,218,217
—, —, bitumen for, 1,505,206
—, —, bituminous material for, 1,288,158; 1,288,159; 1,488,186
—, —, boric acid for, 1,211,028
—, —, calcium carbonate for, 1,505,206
—, —, calcium chloride for, 1,408,760
—, —, calcium hydroxide for, 1,257,488; 1,279,119; 1,518,842
—, —, calcium hydroxide residue from acetylene generation, for, 1,257,488
—, —, calcium oxide for, 1,183,255; 1,518,842
—, —, calcium silicate for, 1,408,760
—, —, calcium sulfate for, 1,408,760
—, —, cans, metallic, for, 1,382,095
—, —, carbon bisulfide for, 1,220,401
—, —, carbon dioxide for, 1,518,842
—, —, cardboard for, 1,362,888; 1,515,723; 1,516,045
—, —, caseinate for, 1,231,921
—, —, cellulose for, 1,513,922; 1,515,723; 1,519,311
—, —, cellulose acetate for, 1,183,694
—, —, cellulose and marl for, 1,392,127
—, —, cement for, 1,201,535; 1,220,401; 1,362,888; 1,382,095; 1,476,078; 1,484,370; 1,503,409
—, —, cement, asphalt, for, 1,218,217
—, —, —, hydraulic, for, 1,201,535; 1,220,550
—, —, —, magnesium oxychloride for, 1,519,311
—, —, —, natural, for, 1,201,535
—, —, —, Portland, for, 1,183,255; 1,201,535; 1,226,292; 1,257,488; 1,279,119; 1,408,760; 1,503,409; 1,519,311; 1,520,791
—, —, —, slag, for, 1,201,535
—, —, chaff for, 1,231,921
—, —, chalk for, 1,231,921
—, —, charcoal for, 1,183,694
—, —, cinders for, 1,408,760
—, —, clay for, 1,183,694; 1,218,217; 1,231,921
—, —, coal, anthracite, ash of, 1,279,119
—, —, coal ashes for, 1,513,922
—, —, containers, metallic, for, 1,382,095
—, —, copper for, 1,488,186
—, —, copper oxide for, 1,505,206
—, —, copper sulfate for, 1,256,324

Building material, mfr. of, cord for, 1,484,370
—, —, cork for, 1,183,694
—, —, cork, compressed, for, 1,304,267
—, —, cork board for, 1,183,694
—, —, corn cobs for, 1,183,694
—, —, corn stalks for, 1,126,186
—, —, cotton for, 1,515,723
—, —, cotton linters for, 1,519,311
—, —, diatomaceous earth for, 1,184,184
—, —, dolomite for, 1,289,862
—, —, excelsior for, 1,126,186
—, —, fabric for, 1,220,550; 1,353,619; Re-15,949; 1,488,186
—, —, felt for, 1,353,619; Re-15,949
—, —, fiber for, 1,183,694
—, —, fibrous material for, 1,220,550; 1,353,619; Re-15,949; 1,498,401
—, —, fire-proofing material for, 1,265,655
—, —, flax for, 1,183,694
—, —, flax felt for, 1,126,186; 1,126,187
—, —, flax straw for, 1,231,921
—, —, fullers earth for, 1,408,760
—, —, gas tar for, 1,220,401
—, —, glass for, 1,408,760
—, —, glue for, 1,515,723
—, —, glue, animal, for, 1,516,045
—, —, —, vegetable, for, 1,516,045
—, —, graphite for, 1,362,888; 1,408,760
—, —, grass for, 1,353,619; Re-15,949
—, —, gravel for, 1,220,401
—, —, grit for, 1,353,619; Re-15,949
—, —, ground glass for, 1,408,760
—, —, gypsum for, 1,211,028; 1,256,324
—, —, hair for, 1,304,267
—, —, hemp for, 1,126,186; 1,126,187; 1,231,921; 1,484,370; 1,513,922; 1,515,723
—, —, horn glue for, 1,231,921
—, —, hydrocarbon for, 1,220,401; 1,505,206
—, —, ilmenite for, 1,183,255
—, —, infusorial earth for, 1,184,184; 1,408,760
—, —, iron(ic) chloride for, 1,256,324
—, —, iron oxide for, 1,505,206
—, —, iron(ous) sulfate for, 1,256,324
—, —, jute for, 1,515,723
—, —, kaolin for, 1,211,028
—, —, kieselguhr for, 1,183,694; 1,184,184
—, —, lath for, 1,126,186; 1,126,187
—, —, lead for, 1,488,186
—, —, lead acetate for, 1,256,324
—, —, lead oxide (Pb_2O), for, 1,515,723
—, —, lead oxide for, 1,505,206; 1,515,723
—, —, leaves for, 1,353,619; Re-15,949
—, —, lime for, 1,476,078
—, —, linseed oil for, 1,218,217; 1,515,723
—, —, magnesite, calcined, for, 1,304,267
—, —, magnesium carbonate for, 1,289,862
—, —, magnesium chloride for, 1,183,694; 1,304,267; 1,443,097
—, —, magnesium oxide for, 1,183,255; 1,183,694; 1,304,267; 1,443,097
—, —, magnesium oxychloride for, 1,304,267; 1,443,097
—, —, magnesium sulfate for, 1,256,324; 1,408,760
—, —, manganese oxide for, 1,505,206
Building material, mfr. of, manganese sulfate for, 1,256,324
—, —, marl and cellulose for, 1,392,127
—, —, menhaden oil for, 1,218,217
—, —, metal for, 1,488,186
—, —, metal chips for, 1,357,375
—, —, metal oxide for, 1,505,206
—, —, mica for, 1,362,888
—, —, mineral wool for, 1,183,694; 1,288,158; 1,288,159; 1,408,760
—, —, moss litter for, 1,231,921
—, —, naphtha for, 1,218,217
—, —, nickel sulfate for, 1,256,324
—, —, ocher for, 1,231,921
—, —, paint for, 1,382,095
—, —, paint, water-proof, for, 1,183,694
—, —, paper for, 1,175,169; 1,353,619; Re-15,949; 1,362,888; 1,476,078; 1,484,370; 1,488,186; 1,513,922; 1,515,723; 1,516,045; 1,519,311
—, —, paper, building, for, 1,126,186; 1,126,187
—, —, —, craft, for, 1,126,187
—, —, —, "Neponsit" for, 1,126,186; 1,126,187
—, —, —, "red rosin" for, 1,126,187
—, —, —, tar, for, 1,183,694
—, —, —, waterproof, for, 1,126,187
—, —, paper pulp for, 1,519,311
—, —, paraffin for, 1,289,862
—, —, peat for, 1,183,694; 1,515,723
—, —, pitch for, 1,183,694; 1,220,401; 1,288,158; 1,288,159; 1,338,037; 1,362,888; 1,488,186; 1,498,401; 1,505,206
—, —, plaster for, 1,268,929; 1,476,078
—, —, plaster of Paris for, 1,184,184; 1,257,488; 1,357,375; 1,503,409; 1,520,791
—, —, poppyseed oil for, 1,218,217
—, —, potassium aluminum sulfate for, 1,256,324
—, —, potassium carbonate for, 1,256,324
—, —, potassium hydroxide for, 1,256,324
—, —, potassium silicate for, 1,201,535; 1,408,760; 1,519,311
—, —, process for, 1,126,186; 1,126,187; 1,175,169; 1,183,255; 1,183,694; 1,184,184; 1,201,535; 1,211,028; 1,218,217; 1,220,401; 1,220,550; 1,226,292; 1,231,921; 1,256,324; 1,257,488; 1,288,158; 1,288,159; 1,304,267; 1,353,619; Re-15,949; 1,357,375; 1,362,888; 1,382,095; 1,408,760; 1,476,078; 1,484,370; 1,488,186; 1,498,401; 1,503,409; 1,505,206; 1,513,922; 1,515,723; 1,515,821; 1,516,045; 1,518,842; 1,519,311; 1,520,791
—, —, pumice for, 1,183,694
—, —, pyrites for, 1,289,862
—, —, rags for, 1,515,723
—, —, resin for, 1,256,324; 1,498;401; 1,515,723
—, —, rosin for, 1,220,401; 1,256,324
—, —, rubber for, 1,175,169; 1,218,217; 1,220,401
—, —, rubberoid for, 1,183,694
—, —, rubber substitute for, 1,218,217
—, —, sand for, 1,218,217; 1,220,401; 1,353,619; Re-15,949; 1,362,888; 1,408,760
—, —, sawdust for, 1,183,694; 1,201,535; 1,211,028; 1,218,217; 1,231,921; 1,304,267; 1,443,097; 1,484,370
—, —, seaweed for, 1,183,694
—, —, shell for, 1,353,619; Re-15,949
—, —, silica for, 1,505,206

Building material, mfr. of, silicon dioxide for, 1,183,255
—, —, slag for, 1,226,292; 1,518,842;
—, —, slag sand for, 1,226,292
—, —, slate for, 1,362,888
—, —, soap, liquid, for, 1,279,119
—, —, —, olive oil, for, 1,279,119
—, —, sodium aluminum sulfate for, 1,256,324
—, —, sodium carbonate for, 1,256,324; 1,513,922
—, —, sodium hydroxide for, 1,256,324; 1,513,922
—, —, sodium silicate for, 1,175,169; 1,201,535; 1,362,888; 1,408,760; 1,484,370; 1,519,311
—, —, steel wool for, 1,408,760
—, —, stone for, 1,362,888; 1,516,045
—, —, stone dust for, 1,218,217
—, —, straw for, 1,126,186; 1,353,619; Re-15,949; 1,513,922; 1,519,311
—, —, stucco for, 1,476,078
—, —, sulfur for, 1,289,862; 1,505,206
—, —, talc for, 1,505,206
—, —, tar for, 1,183,694; 1,362,888
—, —, tung oil for, 1,218,217
—, —, varnish for, 1,175,169
—, —, weeds for, 1,353,619; Re-15,949
—, —, wire for, 1,484,370
—, —, wood for, 1,443,097; 1,484,370; 1,519,311
—, —, wood chips for, 1,357,375
—, —, wood fiber for, 1,218,217; 1,268,929
—, —, wood flour for, 1,183,694; 1,484,370
—, —, wood shavings for, 1,183,694; 1,515,723
—, —, zinc for, 1,488,186
—, —, zinc silicate for, 1,519,311
—, —, zinc sulfate for, 1,256,324
—, plastic, mfr. of, volcanic ash and lava for, 1,344,058
—, sea-wrack for preparing, 1,411,906
—, *ship, see Ship building material*
—, surfacing of, brass filings for, 1,513,620
—, —, iron filings for, 1,513,620
—, —, paraffin for, 1,513,620
—, —, process for, 1,513,620
—, —, sodium chloride for, 1,513,620
—, waterproofing of, mfr. of, alkali hydroxide for, 1,177,156
—, —, —, aluminum hydroxide for, 1,177,156
—, —, —, aluminum salt for, 1,177,156
—, —, —, ammonium hydroxide for, 1,177,156
—, —, —, asphalt for, 1,338,037
—, —, —, calcium salt for, 1,177,156
—, —, —, chromium hydroxide for, 1,177,156
—, —, —, copper hydroxide for, 1,177,156
—, —, —, lead hydroxide for, 1,177,156
—, —, —, magnesium salt for, 1,177,156
—, —, —, process for, 1,177,156; 1,438,966
—, —, —, soap for, 1,177,156
—, —, —, soap, resin, for, 1,177,156
—, —, —, tin hydroxide for, 1,177,156
—, —, —, zinc hydroxide for, 1,177,156
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—, —, calcium hydroxide for, 1,463,123
—, —, calcium sulfate for, 1,463,123
Building material composition, mfr. of, cement for, 1,463,123
—, —, cinder for, 1,463,123
—, —, diatomaceous earth for, 1,463,123
—, —, magnesium chloride for, 1,463,123
—, —, paper for, 1,463,123
—, —, plaster of Paris for, 1,463,123
—, —, process for, 1,463,123
—, —, sand for, 1,463,123
—, —, sawdust for, 1,463,123
—, —, sodium silicate for, 1,463,123
—, —, straw for, 1,463,123
—, —, wood pulp for, 1,463,123
Building paper, mfr. of, apparatus for, 1,515,821
—, —, asbestos for, 1,209,315
—, —, asphalt for, 1,515,821
—, —, cellulose for, 1,515,821
—, —, clay, colloidal for, 1,515,821
—, —, felt for, 1,209,315
—, —, felt, water-proof, for, 1,209,315
—, —, K-B emulsion for, 1,515,821
—, —, gypsum for, 1,209,315
—, —, magnesia for, 1,209,315
—, —, paper for, 1,515,821
—, —, paper, tar, for, 1,209,315
—, —, process for, 1,209,315; 1,489,898; 1,493,447
—, —, sodium silicate for, 1,209,315
—, —, water for, 1,515,821
—, —, wire fabric for, 1,209,315
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—, —, cement for, 1,188,065
—, —, gypsum for, 1,188,065
—, —, oil for, 1,188,065
—, —, plaster of Paris for, 1,188,065
—, —, process for, 1,188,065
—, —, sand for, 1,188,065
—, —, tar for, 1,188,065
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Bulgarious culture, cheese, Swiss, made using, 1,499,390
"Bulk" powder, smokeless powder, maneuver, 1,208,358
Bullets, copper-nickel alloy for jacketing, 1,357,865
—, flash-light composition in, 1,337,343
—, impact illuminating, mfr. of, acacia for, 1,242,879
—, —, —, aluminum for, 1,242,879
—, —, —, antimony sulfide for, 1,242,879
—, —, —, cellulose nitrate for, 1,242,879
—, —, —, ferro-silicon for, 1,242,879
—, —, —, glass for, 1,242,879
—, —, —, nitro-benzene for, 1,242,879
—, —, —, nitro-toluene for, 1,242,879
—, —, —, phosphorus, red, for, 1,242,879
—, —, —, potassium chlorate for, 1,242,879
—, —, —, potassium picrate for, 1,242,879
—, —, —, process for, 1,242,879
—, —, —, shellac for, 1,242,879
—, —, —, strontium nitrate for, 1,242,879
—, —, —, strontium picrate for, 1,242,879
—, —, —, sulfur for, 1,242,879
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Bullets, impact illuminating, mfr. of, tetryl for, 1,242,879
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—, —, mfr. of, alkali earth carbonate for, 1,308,463
—, —, —, alkali earth oxide for, 1,308,463
—, —, —, aluminum for, 1,301,381; 1,308,463
—, —, —, barium carbonate for, 1,308,463
—, —, —, barium nitrate for, 1,308,463
—, —, —, barium oxide for, 1,308,463
—, —, —, calcium carbonate for, 1,308,463
—, —, —, calcium oxide for, 1,308,463
—, —, —, magnesium for, 1,308,463
—, —, —, magnesium carbonate for, 1,308,463
—, —, —, magnesium oxide for, 1,308,463
—, —, —, nitrate for, 1,308,463
—, —, —, paraffin for, 1,308,463
—, —, —, paraffin oil for, 1,308,463
—, —, —, peroxide for, 1,308,463
—, —, —, phosphorus for, 1,301,381
—, —, —, process for, 1,308,463
—, —, —, resin for, 1,308,463
—, —, —, wax for, 1,308,463
—, jackets for, 1,427,127
—, jacket of, cupro-nickel for, 1,432,669
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—, mfr. of, copper alloy, nickel in, for, 1,219,742
—, —, lead for, 1,219,742
—, —, magnesium for, 1,126,415
—, —, match head for, 1,126,415
—, —, nickel alloy, copper in, for, 1,219,742
—, —, process for, 1,124,279; 1,126,415; 1,219,742
—, —, pyrotechnic for, 1,126,415
—, nickel-copper alloy for jacketing, 1,357,865
—, phosphorus in, 1,337,343
—, shooting gallery apparatus made with, 1,126,415
—, tracer, 1,333,834; 1,432,669
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Bullet impeding material, mfr. of, cotton for, 1,213,118
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—, —, resin for, 1,213,118
—, —, wool for, 1,213,118
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—, —, cork for, 1,513,766
—, —, felt blanket for, 1,513,766
—, —, hair for, 1,513,766
—, —, process for, 1,513,766
Bullet-proof article, mfr. of, calico for, 1,239,329
—, —, cotton wool for, 1,239,329
—, —, leather for, 1,239,329
—, —, process for, 1,239,329
—, —, silk for, 1,239,329
—, —, silk fabric for, 1,239,329
—, —, textile for, 1,239,329
—, —, wire for, 1,239,329
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—, —, cotton for, 1,226,767
—, —, process for, 1,226,767
—, —, resin for, 1,226,767
—, —, silk for, 1,226,767
—, —, wool for, 1,226,767
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—, —, cotton for, 1,226,767
—, —, fiber, animal, for, 1,226,767
—, —, —, vegetable, for, 1,226,767
—, —, process for, 1,226,767
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—, —, silk for, 1,226,767
—, —, wool for, 1,226,767
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—, —, rubber composition for, 1,437,487
—, —, process for, 1,437,487
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—, —, charcoal for, 1,285,888
—, —, cork for, 1,285,888
—, —, paraffin for, 1,285,888
—, —, process for, 1,285,888
—, —, rosin for, 1,285,888
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—, coating composition made with, 1,330,421
—, leather surface repairing composition contg., 1,506,983
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—, ore concentration by adhesive contg., 1,448,928
—, shoes, waterproofing of, using, 1,329,162
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—, —, cement for, 1,238,760
—, —, metal molten for, 1,238,760
—, —, paint for, 1,238,760
—, —, pitch for, 1,238,760
—, —, process for, 1,238,760
—, mfr. of, asphalt for, 1,478,769
—, —, asphalt flux for, 1,478,769
—, —, bitumen for, 1,478,769
—, —, bitumen mastic for, 1,478,769
—, —, coal tar for, 1,478,769
—, —, fullers earth for, 1,478,769
—, —, grits for, 1,478,769
—, —, infusorial earth for, 1,478,769
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—, canvas board substitute made with, 1,369,151
—, carpet made with, 1,379,703
—, composite material made with, 1,369,151
—, diaphragm for zinc electrolytic cell contg., 1,315,982
—, doll heads made with, 1,369,151
—, fabric, coated, made with, 1,159,155
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—, horn, sound reproducing, made with, 1,369,151
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—, leather, artificial, viscose, made with, 1,251,237
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—, phonograph horn made with, 1,369,151
—, roofing made with, 1,126,932; 1,250,577; 1,250,578; 1,250,622
—, rug made with, 1,379,703
—, shoe, innersole for made with, 1,473,605
—, sound amplifying chamber made with, 1,369,151
—, structural surfaces coated using, 1,239,074
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—, tarred, trees protected from insects using, 1,130,546
—, tile made with, 1,250,622
—, wall, sound absorbing, made with, 1,205,938
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—, wood substitute made with, 1,369,151
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—, —, —, lime for, 1,204,830
—, —, —, ocher, yellow, for, 1,204,830
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—, —, —, process for, 1,204,830
—, —, —, sodium carbonate for, 1,204,830
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—, —, hydrocarbon oils for, 1,365,108
—, —, kerosene for, 1,149,870
—, —, process for, 1,149,870
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—, beverage, non-alcoholic, made with, 1,262,472
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—, sodium chloride in, 1,262,472
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—, acetone made with, 1,365,053
—, alkyl acetate made with, 1,486,646
—, alkyl alcohol made with, 1,486,646
—, alkyl esters made with, 1,486,646
—, alkyl formate made with, 1,486,646
—, alkyl hydrogen sulfate made with, 1,486,646
—, amyl acetate made with, 1,486,646
—, amyl alcohol made with, 1,486,646
—, amyl esters made with, 1,486,646
—, amyl formate made with, 1,486,646
—, amyl hydrogen sulfate made with, 1,486,646
—, butyl acetate made with, 1,486,646
—, butyl alcohol made with, 1,486,646
—, butyl esters made with, 1,486,646
—, butyl formate made with, 1,486,646
—, butyl hydrogen sulfate made with, 1,486,646
—, butyric acid made with, 1,365,053
—, cellulose acetate, solvent for, made with, 1,365,053
—, ethyl methyl ketone made with, 1,365,053
—, fatty acids made with, 1,365,053
—, formaldehyde made with, 1,365,053
—, formic acid made with, 1,365,053
—, heptyl acetate made with, 1,486,646
—, heptyl alcohol made with, 1,486,646
—, heptyl esters made with, 1,486,646
—, heptyl formate made with, 1,486,646
—, heptyl hydrogen sulfate made with, 1,486,646
—, hexyl acetate made with, 1,486,646
—, hexyl alcohol made with, 1,486,646
—, hexyl esters made with, 1,486,646

Burton oil, hexyl formate made with, 1,486,646
—, hexyl hydrogen sulfate made with, 1,486,646
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—, propionic acid made with, 1,365,053
—, propyl acetate made with, 1,486,646
—, *iso*-propyl acetate made with, 1,486,646
—, propyl alcohol made with, 1,486,646
—, *iso*-propyl alcohol made with, 1,486,646
—, propyl esters made with, 1,486,646
—, *iso*-propyl esters made with, 1,486,646
—, propyl formate made with, 1,486,646
—, *iso*-propyl formate made with, 1,486,646
—, propyl hydrogen sulfate made with, 1,486,646
—, *iso*-propyl hydrogen sulfate made with, 1,486,646
—, valerianic acid made with, 1,365,053
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—, beverage, unfermented, made with, 1,204,869
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—, —, process for, 1,156,448
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—, maleic acid made with, 1,516,756
—, maleic anhydride made with, 1,516,756
—, naphthalene made with, 1,516,756
—, phthalaldehyde made with, 1,516,756
—, phthalaldehydic acid made with, 1,516,756
—, phthalic acid made with, 1,516,756
—, phthalic anhydride made with, 1,516,756
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—, —, cement for, 1,259,502
—, —, cement, Portland, for, 1,259,502
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—, —, wood pulp for, 1,259,502
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—, wood pulp in, 1,259,502
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—, —, synthetic, made with, 1,149,577
—, citrus fruit coloring of using, 1,475,938
—, dyestuff made with, 1,500,844
—, insulation, electric, made with, 1,500,844
—, latex, artificial, made with, 1,149,577
—, lemon coloring of using, 1,475,938
—, linseed oil substitute made with, 1,500,844
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—, phenol aldehyde condensate made with, 1,500,844
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—, pyrotechnic made with, 1,500,844
—, resin, artificial, made with, 1,500,844
—, rubber, synthetic, made with, 1,238,930
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Butadiene, shellac substitute made with, 1,500,844
—, tanning compounds made with, 1,500,844
—, varnish, fat soluble, made with, 1,500,844
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—, —, calcium carbonate for, 1,499,750
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—, —, coal, bituminous, for, 1,499,750
—, —, hydrogen for, 1,499,750
—, —, limestone for, 1,499,750
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—, —, synthetic, made with, 1,189,110
—, homologes of, rubber, synthetic, made with, 1,171,187
—, isoprene made with, 1,218,332
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—, —, alkali earth oxide as catalyst for, 1,436,819
—, —, alkali earth oxychloride for, 1,436,819
—, —, alkali hydroxide as catalyst for, 1,436,819
—, —, alkali oxide as catalyst for, 1,436,819
—, —, alkali oxychloride as for, 1,436,819
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—, —, carbon dioxide for, 1,436,819
—, —, ethylene for, 1,436,819
—, —, magnesium sulfate for, 1,179,408
—, —, molybdic acid for, 1,436,819
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—, rubber, vulcanization accelerator for made with, 1,467,984
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—, —, chlorides solvent, 1,454,873
—, —, chlorine solvent, 1,454,873
—, —, iodine solvent, 1,454,873
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—, chlorine removed from chlorinated hydrocarbon with, 1,325,214
—, chloroform made with, 1,325,214
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—, fuel, liquid, made with, 1,242,795
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—, —, —, —, apparatus for, 1,482,933
—, —, —, —, process for, 1,482,933
—, halogen removed from halogenated hydrocarbon with, 1,325,214
—, hydrocarbon vapor recovery with, 1,463,782
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—, —, hydrocarbon for, 1,365,604; 1,365,605
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—, —, —, process for, 1,225,574
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—, natural gas, removal from of, apparatus for, 1,225,574
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—, natural gas constituent, 1,429,175
—, oil well, operating of using, 1,520,052
—, potato chips made with, 1,199,124
—, potato flour made with, 1,199,124
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—, —, —, process for, 1,307,353
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—, —, —, sodium stearate for, 1,484,190
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—, cooling system contg., 1,213,368
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—, heating system contg., 1,213,368
—, mfr. of, alkali carbonate for, 1,213,367
—, —, 1-butene for, 1,213,367
—, —, carbonate for, 1,213,368
—, —, chlorine for, 1,213,367; 1,213,368; 1,213,369; 1,231,351
—, —, oil gas for, 1,213,367; 1,213,368; 1,213,369; 1,231,351
—, —, process for, 1,213,367; 1,213,368; 1,213,369; 1,231,351
—, —, sodium carbonate for, 1,213,367; 1,213,369; 1,231,351
—, motor boat cooling system contg., 1,213,368
—, nitrated, cellulose nitrate solvent, 1,213,369
—, —, explosive made with, 1,213,367; 1,213,369; 1,231,351
—, —, mfr. of, alkali carbonate for, 1,213,367
—, —, —, chlorine for, 1,213,367; 1,213,369
—, —, —, nitric acid for, 1,213,367; 1,213,369
—, —, —, oil gas for, 1,213,367; 1,213,369
—, —, —, process for, 1,213,367; 1,213,369
—, —, —, sodium carbonate for, 1,213,367; 1,213,369
—, —, —, sulfuric acid for, 1,213,367; 1,213,369
—, refrigerating system contg., 1,213,368
1.3-Butanediol, 1.3-butadiene made with, 1,179,408
2.3-Butanediol, airplane cooling system contg., 1,213,368
—, automobile cooling system contg., 1,213,368
—, cooling system contg., 1,213,368
—, explosive made with, 1,213,367; 1,213,369
—, heating system contg., 1,213,368
—, mfr. of, alkali carbonate for, 1,213,367
—, —, 2-butene for, 1,213,367
—, —, carbonate for, 1,213,368
—, —, chlorine for, 1,213,367; 1,213,368; 1,213,369
—, —, oil gas for, 1,213,367; 1,213,368; 1,213,369
—, —, process for, 1,213,367; 1,213,368; 1,213,369
—, —, sodium carbonate for, 1,213,367; 1,213,369
—, motor boat cooling system contg., 1,213,368
—, nitrated, cellulose nitrate solvent, 1,213,369
—, —, explosive made with, 1,213,367; 1,213,369
—, —, mfr. of, alkali carbonate for, 1,213,367
—, —, —, chlorine for, 1,213,367; 1,213,369

2.3-Butanediol, nitrated, mfr. of, nitric acid for, 1,213,367; 1,213,369
—, —, —, oil gas for, 1,213,367; 1,213,369
—, —, —, process for, 1,213,367; 1,213,369
—, —, —, sodium carbonate for, 1,213,367; 1,213,369
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—, butyl acetate made with, 1,486,646
—, butyl alcohol made with, 1,436,123; 1,486,646
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—, *iso*-butyl alcohol from, 1,464,153
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—, butylene glycol made with, 1,270,759
—, butylesters made with, 1,486,646
—, butyl formate made with, 1,486,646
—, butyl hydrogen sulfate made with, 1,486,646
—, chlorhydrin made with, 1,456,590; 1,510,790
—, dichlorbutane from, 1,270,759; 1,295,339; 1,402,337; 1,402,338; 1,440,976
—, explosive made with, 1,213,367; 1,213,369
—, extraction of, 1,464,153
—, gasolene made with, 1,365,605
—, halogenating, 1,402,337; 1,402,338
—, isoprene made with, 1,218,332
—, mfr. of, apparatus for, 1,234,886; 1,235,777; 1,365,605
—, —, asphalt for, 1,517,968
—, —, bromine for, 1,234,886
—, —, calcium chloride for, 1,234,886
—, —, calcium hypochlorite for, 1,234,886
—, —, chlorine for, 1,234,886
—, —, clay tube for, 1,234,886
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—, —, cracking process for, 1,365,605
—, —, "crucible mixture" tube for, 1,234,886
—, —, fat for, 1,517,968
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—, —, oil gas for, 1,438,123
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—, —, steel tube for, 1,234,886; 1,235,777
—, —, sulfuric acid for, 1,234,886; 1,235,777
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—, —, terra cotta tube for, 1,235,777
—, —, turpentine oil for, 1,234,886
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—, —, calcium hypochlorite and cobalt for, 1,308,796; 1,308,797
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—, *sec*-butyl alcohol made with, 1,408,320
—, fuel, liquid, made with, 1,496,810
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2-Butene, 2.3-butanediol made with, 1,213,367
—, *sec*-butyl alcohol made with, 1,408,320
—, fuel, liquid, made with, 1,496,810
—, oil gas contg., 1,213,367
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—, mfr. of, acetylene for, 1,499,750
—, —, apparatus for, 1,499,750
—, —, calcium carbide for, 1,499,750
—, —, calcium carbonate for, 1,499,750
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—, hydrochloric acid condensed with, 1,425,130
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—, aluminum alloy, soldering of, using, 1,516,759
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—, buttermilk, treatment with of, 1,125,693
—, butter substitute made with, 1,247,482; 1,261,820; 1,475,574
—, calories in, 1,252,029
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—, *cocoa, see Cocoa butter*
—, coloring compound for, mfr. of, alcohol for, 1,224,910
—, —, —, amaranth for, 1,224,910
—, —, —, annatto for, 1,203,594; 1,224,910
—, —, —, butter fat for, 1,203,594; 1,224,910
—, —, —, butter oil for, 1,224,910
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—, —, —, dyestuff for, 1,203,594
—, —, —, erythrosin for, 1,224,910
—, —, —, naphthol yellow S for, 1,224,910
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—, —, —, sodium benzoate for, 1,203,594; 1,224,910
—, —, —, sodium chloride for, 1,224,910
—, composition resembling, mfr. of, 1,417,893
—, containers for, coating, algae extract for, 1,456,494
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—, cream, treatment with of, 1,125,693
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—, flavoring, lactic acid fermented product for, 1,381,468; 1,381,469
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—, food contg., 1,252,029
—, food contg., honey and, 1,263,237
—, food product made with, 1,155,743; 1,234,858; 1,279,390; 1,373,651
—, mfr. of, acacia for, 1,509,082
—, —, agar agar for, 1,509,082
—, —, apparatus for, 1,155,055; 1,219,291; 1,276,910
—, —, buttermilk for, 1,513,331
—, —, casein for, 1,509,086
—, —, churn for, 1,182,888
—, —, cream for, 1,155,055; 1,182,888; 1,219,291; 1,509,084
—, —, cream, reconstructed, for, 1,509,087
—, —, —, sour, for, 1,513,331
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—, —, fat for, 1,513,331
—, —, gelatin for, 1,509,082
—, —, lime for, 1,513,331
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—, —, milk, artificial, for, 1,509,087; 1,509,088
—, —, —, condensed for, 1,509,086
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—, —, milk fat for, 1,509,082; 1,509,086; 1,509,087; 1,509,088
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—, —, milk powder for, 1,509,086; 1,509,087
—, —, pot cheese for, 1,509,086
—, —, process for, 1,155,055; 1,182,888; 1,219,291; 1,276,910; 1,384,318; 1,432,699; 1,485,699; 1,509,082; 1,509,084; 1,509,086; 1,509,087; 1,509,088; 1,513,331
—, —, sodium bicarbonate for, 1,513,331
—, milk, treatment with of, 1,125,693
—, nut, mfr. of, 1,372,614
—, —, oil, hydrogenation, contg., 1,372,614
—, oil, treatment with of, 1,125,693
—, pasteurization of, process for, 1,125,693
—, pastry composition contg., 1,388,019
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—, *pecan, see Pecan butter*
—, rancid, butter fat from, 1,404,054
—, reconstructed milk made with, 1,434,094
—, renovating of, 1,404,054; 1,447,250
—, —, lime for, 1,210,918
—, —, marble dust for, 1,210,918
—, —, process for, 1,210,918
—, —, sodium chloride for, 1,210,918
—, —, water for, 1,210,918
—, —, zinc chloride for, 1,210,918
—, soldering compound using, 1,516,759
—, specific gravity of, determination of, apparatus for, 1,337,410
—, starch, treatment with of, 1,125,693
—, sterilization of, process for, 1,125,693; 1,264,336
—, syphilis, treatment of, compound for, made with, 1,499,249
—, testing, apparatus for, 1,428,020
—, therapeutic compound made with, 1,499,249
—, treating, 1,447,250
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Butter coloring compound, mfr. of, alcohol for, 1,203,594
Butter fat, apparatus for determination of, 1,221,455
—, atomizing into dissolved milk powder, 1,400,484
—, beverage made with, 1,249,044
—, beverage, desiccated, made with, 1,512,730; 1,512,731
—, butter made with, 1,509,086; 1,509,087
—, butter, coloring compound for, made with, 1,203,594; 1,224,910
—, butter substitute made with, 1,190,369; 1,475,574
—, candle made with, 1,248,402
—, confectionery made with, 1,402,004
—, cream, artificial, made with, 1,190,369

Butter fat, cream, reconstructed, made with, 1,494,439
—, cream substitute made with, 1,216,052
—, deodorizing of, process for, 1,463,309
—, fatty acids made with, 1,248,402
—, food made with, 1,126,734
—, food product made with, 1,167,133; 1,191,388
—, glycerol made with, 1,248,402
—, ice cream made with, 1,134,777
—, ice cream base contg., 1,440,011
—, macaroni made with, 1,220,205
—, mfr. of, milk for, 1,354,683; 1,416,053
—, —, process for, 1,354,683; 1,397,664; 1,404,054; 1,413,092
—, margerine contg., 1,386,475
—, milk, artificial, made with, 1,474,843
—, —, human, substitute, made with, 1,249,044
—, —, imperishable, made with, 1,509,083
—, —, reconstructed, made with, 1,494,439
—, —, separation from of, apparatus for, 1,230,395
—, milk product made with, 1,126,734
—, milk reconstructed from skim milk powder and, 1,400,484
—, noodles made with, 1,220,205
—, purifying, sodium hydroxide for, 1,397,663
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—, soap made with, 1,248,402
—, spaghetti made with, 1,220,205
—, stearic acid made with, 1,248,402
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—, —, cotton seed oil for, 1,127,545
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—, peanut oil as constituent of, 1,364,297
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—, baking powder made with, 1,322,561
—, bread made with, 1,222,304; 1,500,545
—, bread, whole-wheat, made with, 1,254,494
—, butter made with, 1,513,331
—, butter, treatment of with, 1,125,693
—, buttermilk flour made with, 1,258,348
—, butter oil made with, 1,401,853
—, butter substitute made with, 1,247,482; 1,247,483; 1,495,734
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—, casein glue made with, 1,167,434
—, cleaner made with, 1,211,188
—, condensed, mfr. of, 1,370,828
—, containers for, coating, algae extract for, 1,456,494
—, —, —, Irish moss extract for, 1,456,494
—, desiccated, mfr. of, apparatus for, 1,258,348
—, —, —, process for, 1,258,348
—, —, —, rennet for, 1,258,348
—, detergent made with, 1,211,108
—, dry, margarine contg., 1,444,562
—, —, product contg., 1,374,138
—, drying, 1,398,735
Buttermilk, drying, apparatus for, 1,356,340
—, evaporated, bread made with, 1,170,474
—, —, cake made with, 1,170,474
—, —, food product made with, 1,170,474
—, —, pan-cake made with, 1,170,474
—, food made with, 1,287,600
—, food product made with, 1,182,860; 1,477,153
—, lactic acid, titration of in, process for, 1,358,950
—, lard made with, 1,123,644
—, margarine made by product, 1,386,475
—, milk product contg., 1,432,699
—, pasteurizing of, apparatus for, 1,138,097
—, polish made with, 1,211,188
—, powdered, bread made with, 1,493,685
—, —, food product made with, 1,493,685
—, —, mfr. of, 1,370,828
—, prepared flour contg., 1,428,628
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Buttermilk flour, mfr. of, apparatus for, 1,258,348
—, —, buttermilk for, 1,258,348
—, cattle food made with, 1,258,348
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Butter-nut, milk substitute made with, 1,267,449
—, olives, stuffed, made with, 1,231,286
Butternut oil, butter substitute made with, 1,247,482; 1,247,483
Butter oil, butter coloring compound for, made with, 1,224,910
—, casein and, separating, 1,401,853
—, emulsifying, 1,342,827
—, mfr. of, 1,401,853
—, renovating of, lime for, 1,210,918
—, —, marble dust for, 1,210,918
—, —, process for, 1,210,918
—, —, sodium chloride for, 1,210,918
—, —, water for, 1,210,918
—, —, zinc chloride for, 1,210,918
Butter substitute, butter in, 1,261,820
—, corn oil, hydrogenated as, 1,231,114
—, crystallizing, 1,426,555
—, egg in, 1,261,829
—, ethyl stearate in, 1,372,616
—, food product made with, 1,373,651
—, formula, butter 5 lbs., flour 5 lbs., milk 10 qts., egg 10, 1,261,820
—, hydrogenated oil in, 1,390,689
—, linolein as, 1,231,114
—, mfr. of, acacia for, 1,190,369
—, —, acetic acid, glyceride of, for, 1,190,369
—, —, air for, 1,190,369
—, —, alkali acetate for, 1,232,016
—, —, alkali earth acetate for, 1,216,674
—, —, alkali earth formate for, 1,216,674
—, —, alkali earth glycolate for, 1,216,675
—, —, alkali earth lactate for, 1,216,675
—, —, alkali earth propionate for, 1,216,674
—, —, alkali formate for, 1,232,016
—, —, alkali lactate for, 1,147,626; 1,216,674; 1,216,675; 1,232,016
—, —, alkali propionate for, 1,232,016
—, —, almond oil for, 1,247,482; 1,247,483
—, —, ammonium hydroxide for, 1,190,369

Butter substitute, mfr. of, annato for, 1,247,482; 1,247,483
—, —, apparatus for, 1,144,539; 1,398,003; 1,507,426
—, —, arachidic acid, glyceride of for, 1,190,369
—, —, bacteria, *B. Bulgaricus*, for, 1,247,482
—, —, —, milk, for, 1,210,667
—, —, beef fat for, 1,190,369
—, —, beef stearin for, 1,417,893
—, —, butter for, 1,247,482; 1,261,820; 1,475,574
—, —, butter fat for, 1,190,369; 1,475,574
—, —, buttermilk for, 1,247,482; 1,247,483; 1,495,734
—, —, butternut oil for, 1,247,482; 1,247,483
—, —, butyric acid for, 1,210,667
—, —, butyric acid, glyceride of, for, 1,190,369
—, —, butyric glyceride for, 1,417,893
—, —, calcium acetate for, 1,216,674
—, —, calcium chloride for, 1,210,667
—, —, calcium formate for, 1,216,674
—, —, calcium glycolate for, 1,216,675
—, —, calcium hydroxide for, 1,210,667
—, —, calcium lactate for, 1,216,675
—, —, calcium propionate for, 1,216,674
—, —, calcium sucrate for, 1,190,369
—, —, caproic acid, glyceride of, for, 1,190,369
—, —, caprylic acid, glyceride of, for, 1,190,369
—, — carragheen moss for, 1,190,369
—, —, carrot yellow for, 1,247,482; 1,247,483
—, —, casein for, 1,190,369
—, —, cattle food stuffs for, 1,140,629
—, —, cetyl alcohol for, 1,475,574
—, —, cetylic acid esters for, 1,475,574
—, —, cheese for, 1,128,357
—, —, citric acid for, 1,210,667
—, —, clover for, 1,140,629
—, —, cocoanut butter for, 1,247,482; 1,247,483
—, —, cocoanut fat for, 1,210,667; 1,495,734
—, —, cocoanut oil for, 1,475,574
—, —, corn oil for, 1,189,128; 1,475,574; 1,495,734
—, —, corn oil, hydrogenated, for, 1,417,893
—, —, corn starch for, 1,507,820
—, —, cottolene for, 1,247,482
—, —, cotton seed oil for, 1,140,629; 1,144,539; 1,189,128; 1,190,369; 1,206,954; 1,475,574; 1,507,820
—, —, cotton seed oil, hydrogenated, for, 1,417,893
—, —, cream for, 1,144,539; 1,147,626; 1,216,674; 1,232,016; 1,475,574
—, —, dextrin, malted, for, 1,210,667
—, —, egg for, 1,261,820
—, —, egg yolk for, 1,147,626; 1,216,674; 1,216,675; 1,232,016
—, —, fat for, 1,144,539; 1,206,954; 1,216,674; 1,216,675; 1,507,426
—, —, fat, animal, for, 1,247,483; 1,475,574
—, —, —, vegetable, for, 1,247,483; 1,475,574; 1,495,734
—, —, ferments for, 1,190,369
—, —, fish for, 1,128,357
—, —, flour for, 1,128,357; 1,507,820
—, —, fruit for, 1,128,357
—, —, garlic for, 1,128,357
—, —, gelatin for, 1,128,357; 1,190,369
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—, —, gluten for, 1,507,820
—, —, glyceride, acetic acid, for, 1,190,369
—, —, —, arachidic acid, for, 1,190,369
—, —, —, butyric acid, for, 1,190,369
—, —, —, caproic acid for, 1,190,369
—, —, —, capyrlic acid, for, 1,190,369
—, —, —, lauric acid for, 1,190,369
—, —, —, myristic acid, for, 1,190,369
—, —, —, oleic acid, for, 1,190,369
—, —, —, palmitic acid, for, 1,190,369
—, —, —, stearic acid, for, 1,190,369
—, —, hay for, 1,140,629
—, —, hydrogenation process for, 1,206,954
—, —, Iceland moss for, 1,190,369
—, —, Irish moss for, 1,190,369
—, —, lactate for, 1,147,626
—, —, lard for, 1,128,357
—, —, lard oil for, 1,475,574
—, —, lauric acid, glyceride of, for, 1,190,369
—, —, *Leguminosae* for, 1,210,667
—, —, linseed oil for, 1,507,820
—, —, magnesium acetate for, 1,216,674
—, —, magnesium carbonate for, 1,507,820
—, —, magnesium formate for, 1,216,674
—, —, magnesium glycolate for, 1,216,675
—, —, magnesium lactate for, 1,216,675
—, —, magnesium propionate for, 1,216,674
—, —, meat extract for, 1,128,357
—, —, milk for, 1,128,357; 1,144,539; 1,147,626; 1,190,369; 1,216,674; 1,216,675; 1,232,016; 1,247,482; 1,247,483; 1,261,820; 1,475,574; 1,495,734; 1,507,426
—, —, milk, malted, for, 1,475,574
—, —, —, skimmed, for, 1,190,369; 1,247,482; 1,247,483; 1,475,574; 1,495,734
—, —, —, sour, for, 1,247,482; 1,247,483; 1,417,893
—, —, milk powder for, 1,190,369; 1,475,574
—, —, myristic acid, glyceride of, for, 1,190,369
—, —, nut for, 1,128,357
—, —, Nujol for, 1,417,893
—, —, oil for, 1,144,539
—, —, oil, animal, for, 1,190,369; 1,206,954; 1,475,574; 1,507,426
—, —, —, —, hydrogenated, for, 1,417,893
—, —, —, edible, for, 1,475,574
—, —, —, mineral, for, 1,507,820
—, —, —, vegetable, for, 1,190,369; 1,206,954; 1,475,574; 1,507,426; 1,507,820
—, —, oleic acid, glyceride of, for, 1,190,369
—, —, oleo for, 1,190,369
—, —, olive oil for, 1,189,128; 1,190,369; 1,247,482; 1,247,483; 1,475,574
—, —, ozone for, 1,190,369
—, —, palmitic acid, glyceride of, for, 1,190,369
—, —, palm oil for, 1,417,893
—, —, paraffin oil for, 1,417,893
—, —, peanut for, 1,210,667
—, —, peanut butter for, 1,189,128
—, —, peanut fat for, 1,210,667
—, —, peanut oil for, 1,140,629; 1,189,128; 1,190,369; 1,475,574; 1,495,734; 1,507,820
—, —, peanut oil, hydrogenated, for, 1,417,893
—, —, petroleum for, 1,417,893
—, —, potassium hydroxide for, 1,190,369; 1,210,667

Butter-substitute, mfr. of, potato, mashed for, 1,128,357
—,—, process for, 1,128,357; 1,140,629; 1,144,539; 1,147,626; 1,189,128; 1,190,369; 1,206,954; 1,210,667; 1,216,674; 1,216,675; 1,232,016; 1,247,482; 1,247,483; 1,261,820; 1,297,668; 1,403,122; 1,417,893; 1,434,048; 1,434,049; 1,444,562; 1,462,163; 1,475,574; 1,495,734; 1,507,426; 1,507,820
—,—, rennet for, 1,190,369
—,—, Russian petroleum oil for, 1,417,893
—,—, salt, organic, for, 1,147,626
—,—, sesame oil for, 1,475,574
—,—, sesame oil, hydrogenated, for, 1,417,893
—,—, sodium bicarbonate for, 1,190,369
—,—, sodium carbonate for, 1,190,369; 1,210,667
—,—, sodium chloride for, 1,147,626; 1,232,016; 1,261,820; 1,475,574
—,—, sodium hydroxide for, 1,190,369; 1,210,667
—,—, sodium phosphate for, 1,210,667
—,—, soya bean for, 1,189,128; 1,210,667
—,—, soya bean oil, hydrogenation of, for, 1,417,893
—,—, starch for, 1,190,369; 1,507,820
—,—, stearic acid, glyceride of, for, 1,190,369
—,—, stearin for, 1,144,539
—,—, stearin, beef, for, 1,144,539
—,—, sugar, milk, for, 1,190,369
—,—, sunflower oil for, 1,475,574
—,—, tallow for, 1,475,574
—,—, tragacanth for, 1,190,369
—,—, wheat flour for, 1,261,820
—,—, yellow A. B. for, 1,507,820
—,—, yellow O. B. for, 1,507,820
—, milk in, 1,261,820
—, olein as, 1,231,114
—, sodium chloride in, 1,261,820
—, wheat flour in, 1,261,820
—, *see also Margarin; Food product; Oleomargarine*
Butter surrogate, see Margarine
Butter of tin, see Tin(ic) chloride
Butter yellow, see Dimethyl-amino-azo-benzene
Butter of zinc, see Zinc chloride
Buttirol, see Margarine
Button, casein in, 1,256,621
—, celluloid, mfr. of, apparatus for, 1,296,767
—, construction of, 1,340,390
—, electric switch, mfr. of, celluloid for, 1,262,368
—,—,—, phenol aldehyde condensate for, 1,262,368
—,—,—, process for, 1,262,368
—, glue, vegetable, in, 1,256,621
—, mfr. of, acacia for, 1,177,803
—,—, acetaldehyde for, 1,470,637
—,—, acetic acid for, 1,452,086
—,—, acetone for, 1,452,086
—,—, acetylene for, 1,470,637
—,—, alcohol for, 1,395,729; 1,470,637
—,—, aldehydes for, 1,395,729
—,—, aluminum powder for, 1,160,362; 1,160,365
—,—, aluminum salt for, 1,160,362; 1,160,365
—,—, anisole for, 1,209,333
—,—, apparatus for, 1,188,425; 1,215,675; 1,477,094
—,—, asbestos for, 1,160,362; 1,160,365; 1,470,637
Button, mfr. of, Baroque pearl powder for, 1,177,803
—,—, benzene for, 1,209,333
—,—, blood, colloidal, for, 1,395,729
—,—, calcium chloride for, 1,452,086
—,—, calcium nitrate for, 1,177,803
—,—, calcium sulfate for, 1,427,103
—,—, camphor for, 1,477,094
—,—, cardboard for, 1,301,069
—,—, casein for, 1,256,621; 1,452,086
—,—, casein, colloidal, for, 1,395,729
—,—, casein composition for, 1,437,487
—,—, celluloid for, 1,188,425; 1,215,675; 1,382,739; 1,477,094
—,—, celluloid and fabric for, 1,322,631
—,—, cellulose for, 1,160,362; 1,160,365; 1,470,637
—,—, cellulose, corncob, for, 1,470,637
—,—,—, soda for, 1,160,362; 1,160,365
—,—, cellulose nitrate for, 1,188,425; 1,477,094
—,—, cellulose sulfite for, 1,160,362; 1,160,365
—,—, cellulose sulfite liquor for, 1,175,422
—,—, cement for, 1,427,103
—,—, cement transparent, for, 1,177,803
—,—, chloroform for, 1,177,803
—,—, clay, china, for, 1,160,362; 1,160,365
—,—, cloth for, 1,470,637
—,—, cobalt salt for, 1,160,362; 1,160,365
—,—, copper salt for, 1,160,362; 1,160,365
—,—, cotton for, 1,160,362; 1,160,365; 1,301,069
—,—, cotton-flocks for, 1,470,637
—,—, cresol for, 1,209,333
—,—, dichlorhydrin for, 1,395,729
—,—, dihydroxy-diphenyl-dimethyl-methane for, 1,158,962
—,—, dihydroxy-diphenyl-dimethyl-methane aldehyde condensate for, 1,158,962
—,—, esparto for, 1,160,362; 1,160,365
—,—, ethyl alcohol for, 1,477,094
—,—, fabric for, 1,301,069
—,—, fabric and celluloid for, 1,322,631
—,—, fabric covering for, 1,301,069
—,—, felt for, 1,470,637
—,—, fish protein, colloidal, for, 1,395,729
—,—, formaldehyde for, 1,160,362; 1,160,365; 1,209,333; 1,395,729; 1,452,086; 1,470,637
—,—, fural for, 1,470,637
—,—, glue for, 1,160,362; 1,160,365
—,—, glue, vegetable, for, 1,256,621
—,—, glycerol for, 1,452,086
—,—, gypsum for, 1,427,103
—,—, hemoglobin, colloidal for, 1,395,729
—,—, hexamethylenetramine for, 1,209,333; 1,470,637
—,—, hydrobenzamide for, 1,209,333
—,—, iron salt for, 1,160,362; 1,160,365
—,—, ivory nut for, 1,166,733
—,—, Japanese thick lacquer for, 1,177,803
—,—, lamp black for, 1,470,637
—,—, linen for, 1,160,362; 1,160,365
—,—, linseed oil for, 1,477,922
—,—, magnesite for, 1,427,103
—,—, magnesium chloride used in, 1,427,103
—,—, magnesium oxide for, 1,427,103
—,—, mastic for, 1,177,803

Button, mfr. of, mercury(ic), sulfate for, 1,470,637
—, —, metal for, 1,177,803; 1,188,425; 1,215,675
—, —, methyl benzoate for, 1,209,333
—, —, methyl phenyl ketone for, 1,209,333
—, —, mica for, 1,160,362; 1,160,365
—, —, milk cured for, 1,452,086
—, —, nickel salt for, 1,160,362; 1,160,365
—, —, paper for, 1,215,675; 1,470,637
—, —, paper covering for, 1,301,069
—, —, paper pulp for, 1,256,621
—, —, paracoumarone for, 1,332,860
—, —, paraldehyde for, 1,470,637
—, —, pearl mixture for, 1,177,803
—, —, phenetole for, 1,209,333
—, —, phenol for, 1,160,362; 1,160,365; 1,209,333; 1,395,729; 1,470,637
—, —, phenol, acetylene condensate, for, 1,470,637
—, —, phenol aldehyde condensate for, 1,160,362; 1,160,365; 1,301,069
—, —, phenyl ether for, 1,209,333
—, —, plaster of Paris for, 1,256,621
—, —, potassium carbonate for, 1,177,803
—, —, process for, 1,158,962; 1,159,879; 1,160,362; 1,160,365; 1,175,422; 1,177,803; 1,188,425; 1,209,333; 1,215,675; 1,256,621; 1,301,069; 1,304,851; 1,382,739; 1,395,729; 1,437,487; 1,452,086; 1,470,637; 1,477,094
—, —, protein, colloidal for, 1,395,729
—, —, rags for, 1,160,362; 1,160,365
—, —, rotten-stone for, 1,470,637
—, —, rubber for, 1,177,803
—, —, rubber composition for, 1,437,487
—, —, shellac for, 1,256,621
—, —, shells for, 1,421,970
—, —, silk for, 1,301,069
—, —, silver chloride for, 1,177,803
—, —, soap for, 1,477,922
—, —, soap, resinous, for, 1,160,362; 1,160,365
—, —, soapstone for, 1,160,362; 1,160,365
—, —, sodium chloride for, 1,177,803
—, —, starch for, 1,160,362; 1,160,365
—, —, sulfuric acid for, 1,470,637
—, —, tapioca flour for, 1,256,621
—, —, water for, 1,177,803
—, —, whiting for, 1,177,803
—, —, wood flour for, 1,470,637
—, —, wood pulp for, 1,160,362; 1,160,365
—, —, wood pulp, mechanical, for, 1,160,362; 1,160,365
—, —, yeast, colloidal, for, 1,395,729
—, —, zinc salt for, 1,160,362; 1,160,365
—, —, process for, 1,178,738
—, paper pulp in, 1,256,621
—, plaster of Paris in, 1,256,621
—, shellac in, 1,256,621
—, stearic acid for, 1,470,637
—, tapioca flour in, 1,256,621
Button "bark," pearl, calcium carbonate in, 1,312,723
—, —, decolorizing of, process for, 1,312,723
—, —, whitening of, antimony trichloride for, 1,312,723
—, —, —, bismuth nitrate for, 1,312,723
Button "bark," pearl, whitening of, citric acid for, 1,312,723
—, —, —, hydrochloric acid for, 1,312,723
—, —, —, nitric acid for, 1,312,723
—, —, —, paraffin for, 1,312,723
—, —, —, process for, 1,312,723
—, —, —, sulfuric acid for, 1,312,723
—, —, —, tartaric acid for, 1,312,723
Butyl acetate, airplane fuel, contg., 1,420,006; 1,420,007
—, balloon fabric made with, 1,378,804
—, carbon monoxide solubility in, 1,438,581
—, carbon monoxide solvent, 1,438,581
—, celluloid made with, 1,508,483; 1,508,484
—, celluloid substitute made with, 1,217,027
—, cellulose acetate cement made with, 1,494,479
—, cellulose acetate solvent contg., 1,309,980; 1,365,049; 1,370,879
—, cellulose ester solvent contg., 1,437,952
—, cellulose ether cement made with, 1,494,479
—, cellulose ether solvent, 1,217,027; 1,217,028; 1,434,465; 1,437,952; 1,469,825; 1,469,826
—, cellulose nitrate cement made with, 1,494,479
—, cellulose nitrate coating made with, 1,320,458
—, cellulose nitrate soluble in, 1,416,493
—, cellulose nitrate solvent contg., 1,309,981; 1,320,458; 1,321,611; 1,323,624; 1,350,274; 1,365,049; 1,370,878; 1,378,804; 1,439,293
—, colored light made with, 1,388,501
—, ethyl cellulose solvent, 1,188,376; 1,217,027; 1,217,028; 1,434,465; 1,469,825; 1,469,826
—, ethyl starch solvent, 1,350,820
—, filament, artificial, made with, 1,217,028
—, film made with, 1,217,027
—, film, flexible, made with, 1,320,458
—, —, photographic, made with, 1,434,465; 1,494,479
—, finish remover made with, 1,167,640
—, flare made with, 1,388,501
—, fuel, liquid, contg., 1,420,006; 1,420,007; 1,421,879
—, gelatin substitute made with, 1,217,027
—, hair, artificial, made with, 1,217,028
—, hydrogen (compressed), made with, 1,438,581
—, hydrogen purified with, 1,395,389
—, hydrogen solubility in, 1,438,581
—, hydrogen solvent, 1,438,581
—, lacquer made with, 1,437,170
—, lacquer ingredient, 1,437,170
—, leather, artificial, made with, 1,320,458
—, —, coating composition, for, made with, 1,320,458; 1,437,170
—, mfr. of, apparatus for, 1,365,049; 1,491,076
—, —, barium hydroxide for, 1,491,076
—, —, Burton oil for, 1,486,646
—, —, butyl alcohol for, 1,491,076
—, —, butylene for, 1,486,646
—, —, butyl hydrogen sulfate for, 1,486,646
—, —, calcium acetate for, 1,365,049; 1,486,646
—, —, gasolene for, 1,486,646
—, —, hydrocarbon, olefin, for, 1,365,049; 1,486,646
—, —, hydrochloric acid for, 1,491,076
—, —, methyl acetate for, 1,491,076
—, —, naphtha for, 1,486,646

Butyl acetate, mfr. of, petroleum for, 1,365,049
—, —, petroleum, cracked, for, 1,486,646
—, —, process for, 1,365,049; 1,433,308; 1,486,646; 1,491,076
—, —, shale oil for, 1,365,049
—, —, shale oil, cracked, for, 1,486,646
—, —, sodium for, 1,491,076
—, —, sodium alcoholate for, 1,491,076
—, —, sodium carbonate for, 1,486,646
—, —, sodium hydroxide for, 1,491,076
—, —, sulfuric acid for, 1,365,049; 1,486,646; 1,491,076
—, —, hydrocarbons, unsaturated for, 1,365,049
—, methane solubility in, 1,438,581
—, motor fuel contg., 1,420,006; 1,420,007; 1,421,879; 1,423,058
—, motor fuel ingredient, 1,414,759
—, nitrostarch solvent, 1,388,501
—, paint deodorized with, 1,422,711
—, pryotechnic made with, 1,388,501
—, recovery of, process for, 1,381,002
—, rocket made with, 1,388,501
—, silk, artificial, made with, 1,217,028
—, starch ethers solvent, 1,350,820
—, torch made with, 1,388,501
—, varnish made with, 1,437,170
iso-Butyl acetate, cellulose ether solvent contg., 1,434,465
—, cellulose nitrate solvent, 1,341,710
—, ethyl cellulose solvent contg., 1,434,465
—, film, photographic, made with, 1,434,465
—, mfr. of, apparatus for, 1,365,049
—, —, calcium acetate for, 1,365,049
—, —, hydrocarbon, olefin, for, 1,365,049
—, —, petroleum for, 1,365,049
—, —, process for, 1,365,049
—, —, sulfuric acid for, 1,365,049
n-Butyl acetate, cellulose nitrate solvent, 1,341,710; 1,356,440
—, ethyl cellulose solvent contg., 1,469,825
Butylacetic acid, see iso-Oxybutyric acid
iso-Butyl-acetic acid, see iso-Caproic acid
n-Butyl-acetic acid, see n-Caproic acid
Butyl aceto-acetate, camphor substitute, 1,437,952
—, cellulose ester solvent contg., 1,437,952
—, cellulose ether solvent contg., 1,437,952
Butyl o-acetoxy-benzoate, see Butyl acetylsalicylate
Butyl acetyl oxystearate, cellulose nitrate softener, 1,357,876
Butyl acetyl ricinoleate, cellulose nitrate softener, 1,357,876
Butyl acetylsalicylate, cellulose acetate, plasticizer, 1,408,095
—, cellulose esters, plasticizer, 1,408,095
—, cellulose nitrate, plasticizer, 1,408,095
—, mfr. of, acetic anhydride for, 1,408,095
—, —, butyl alcohol for, 1,408,095
—, —, hydrochloric acid for, 1,408,095
—, —, process for, 1,408,095
—, —, salicylic acid for, 1,408,095
Butyl alcohol, airplane fuel contg., 1,420,006; 1,420,007
—, allspice extract made with, 1,384,681
—, almond extract made with, 1,384,680; 1,384,681
Butyl alcohol, anise extract made with, 1,384,681
—, apple extract made with, 1,384,681
—, apricot extract made with, 1,384,681
—, butenes made with, 1,395,620
—, butyl acetate made with, 1,433,308; 1,491,076
—, butyl acetylsalicylate made with, 1,408,095
—, butyl butyrate made with, 1,433,308
—, *n*-butyl *p*-nitrobenzoate from, 1,440,652
—, butyl oxalate made with, 1,433,308
—, butyl propionate made with, 1,433,308
—, butyl tartrate made with, 1,433,308
—, butyl valerate from, 1,433,308
—, butyraldehyde from, 1,418,448
—, butyric acid mixed with sulfuric acid and, 1,425,580
—, calcium hypochlorite made with, 1,481,039
—, camphor substitute made with, 1,469,815
—, cassia extract made with, 1,384,681
—, celery extract made with, 1,384,681
—, celluloid solvent, 1,368,954; 1,421,974
—, cellulose acetate film made with, 1,342,601; 1,342,602
—, cellulose acetate solvent contg., 1,199,799; 1,265,217
—, cellulose butyrate non-solvent, 1,425,580; 1,425,581
—, —, cellulose ester non-solvent of ethylene dichloride and, 1,339,552
—, cellulose ester solvent contg., 1,437,952
—, cellulose ether film, pre-shrinking of, using, 1,482,717
—, —, swelling of, using, 1,482,717
—, cellulose ether solvent contg., 1,411,708; 1,429,188; 1,432,364; 1,432,374; 1,437,952; 1,469,812; 1,469,813; 1,469,862; 1,469,863
—, cellulose ether solvent of phenyl propyl alcohol and, 1,444,331
—, cellulose nitrate, diphenylamine, removal of from, 1,439,656
—, —, water, removal of from, 1,510,739
—, cellulose nitrate composition contg., 1,354,725
—, cellulose nitrate dehydrated by, 1,398,911; 1,399,357
—, cellulose nitrate film made with, 1,342,601; 1,342,602
—, cellulose nitrate solvent contg., 1,321,611; 1,323,624; 1,370,922; 1,379,596; 1,380,258; 1,398,239; 1,429,174; 1,431,900; 1,434,453; 1,434,454; 1,437,170; 1,439,293; 1,441,185; 1,510,739
—, cellulose nitrate solvent diluent, 1,350,274
—, dehydrogenating, 1,418,448
—, dehydrogenation of, copper contg., catalyst for, 1,401,117
—, dibutyl sulfate made with, 1,506,228
—, diphenylamine, cellulose nitrate, removal from of, using, 1,439,656
—, —, powder, smokeless, removal from of, using, 1,439,656
—, diphenylamine solvent, 1,439,656
—, dye, film, cellulose acetate, removal from of, using, 1,497,138
—, —, —, cellulose ether, removal from of, using, 1,497,138

Butyl alcohol, dye, film, cellulose nitrate, removal from of, using, 1,497,138
—, —, —, photographic, removal, from of, using, 1,497,138
—, esters made with, 1,464,153; 1,517,968
—, ethyl alcohol, separation of from, process for, 1,169,122
—, ethyl cellulose film, pre-shrinking of, using, 1,482,717
—, —, swelling of, using, 1,482,717
—, ethyl cellulose solvent for contg., 1,411,677; 1,411,708; 1,432,364; 1,432,374; 1,434,426; 1,434,427; 1,437,792; 1,458,256; 1,469,812; 1,469,813; 1,469,862; 1,469,863
—, film made with, 1,354,725; 1,429,174
—, film, cellulose acetate, dye, removal of from, using, 1,497,138
—, —, cellulose ether, dye, removal of from, using, 1,497,138
—, —, cellulose nitrate, dye, removal of from, using, 1,497,138
—, —, motion picture, made with, 1,411,677; 1,518,409
—, —, —, composite, made with, 1,469,815
—, —, photographic, made with, 1,199,799; 1,342,601; 1,342,602; 1,411,708; 1,415,059; 1,431,900; 1,432,364; 1,432,374; 1,434,453; 1,434,454; 1,441,185; 1,486,245
—, —, —, dye, removal of from, using, 1,497,138
—, finish remover made with, 1,140,449; 1,145,980; 1,160,394; 1,167,640
—, flavoring extract made with, 1,384,680; 1,384,681
—, fuel contg., 1,474,135
—, fuel, liquid, contg., 1,420,006; 1,420,007; 1,496,810
—, ivory nut treated with, 1,507,938
—, lacquer made with, 1,411,035; 1,437,170
—, leather, coating composition for, made with, 1,437,170
—, —, patent, made with, 1,437,170
—, lemon extract made with, 1,384,680
—, lubricant made with, 1,226,165
—, mfr. of, apparatus for, 1,438,123
—, —, *Bacillus acetobutylicum* for, 1,427,595
—, —, bacteria for, 1,315,585; 1,329,214; 1,427,595
—, —, bacteria, Fitz type, for, 1,315,585
—, —, bacteriological process of, 1,437,697
—, —, barley for, 1,427,595; 1,510,526
—, —, Burton oil for, 1,486,646
—, —, butene for, 1,438,123
—, —, butylene for, 1,438,123; 1,486,646
—, —, butyl hydrogen sulfate for, 1,486,646
—, —, calcium formate for, 1,221,667
—, —, carbohydrates for, 1,427,595
—, —, carbon, decolorizing, for, 1,510,526
—, —, cereal for, 1,510,526
—, —, chlorine for, 1,221,667
—, —, corn for, 1,315,585; 1,510,526
—, —, corn meal for, 1,427,595; 1,510,526
—, —, "Darco" for, 1,510,526
—, —, durra for, 1,315,585
—, —, flax for, 1,315,585
—, —, formate for, 1,221,667
Butyl alcohol, mfr. of, fructose for, 1,510,526
—, —, gasolene for, 1,221,667; 1,486,646
—, —, gasolene, casing head, for, 1,221,667
—, —, —, chlorinated, for, 1,221,667
—, —, glucose for, 1,510,526
—, —, grain for, 1,427,595; 1,510,526
—, —, granulobacter organisms for, 1,510,526
—, —, hydrocarbon for, 1,365,043; 1,486,647
—, —, hydrocarbon, olefin, for, 1,486,646; 1,486,647
—, —, —, unsaturated, for, 1,365,043
—, —, kerosene for, 1,486,647
—, —, lubricating oil for, 1,486,647
—, —, methyl alcohol for, 1,221,667
—, —, molasses for, 1,510,526
—, —, molasses, black, strap, for, 1,510,526
—, —, naphtha for, 1,486,646
—, —, "Norit," for, 1,510,526
—, —, oats for, 1,315,585
—, —, oil gas for, 1,517,968
—, —, petroleum for, 1,221,667; 1,365,043
—, —, petroleum, cracked, for, 1,486,646; 1,486,647
—, —, phosphoric acid for, 1,438,123
—, —, potassium formate for, 1,221,667
—, —, potato for, 1,315,585; 1,427,595
—, —, process for, 1,221,667; 1,365,043; 1,427,595; 1,438,123; 1,486,646; 1,486,647; 1,510,526; 1,517,968
—, —, raffinose for, 1,510,526
—, —, rice for, 1,315,585; 1,427,595
—, —, rye for, 1,315,585
—, —, shale oil, cracked, for, 1,486,646
—, —, sodium bisulfate for, 1,438,123
—, —, sodium chloride for, 1,486,646
—, —, sodium formate for, 1,221,667
—, —, sodium sulfate for, 1,486,646
—, —, starch for, 1,427,595
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—, metal cleaning composition contg., 1,398,507
—, methyl ethyl ketone made with, 1,447,557
—, motor fuel contg., 1,398,947; 1,412,233; 1,420,006; 1,420,007; 1,423,048; 1,423,049; 1,423,050; 1,423,058; 1,428,913
—, orange extract made with, 1,384,680
—, oxidizing, copper for, 1,464,153
—, paint remover made with, 1,130,499; 1,499,101
—, peach extract made with, 1,384,681
—, pear extract made with, 1,384,681
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—, phosphoric acid, dehydrated, made with, 1,499,611
—, —, —, solvent, 1,499,611
—, powder, smokeless, diphenylamine, removal of from, using, 1,439,656

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—, rust-remover contg., 1,439,780
—, rust remover of hydrolyzed starch and, 1,439,780
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—, soldering flux contg., 1,428,088
—, vanilla extract made with, 1,384,680
—, varnish made with, 1,354,725; 1,429,174; 1,437,170
—, varnish remover made with, 1,130,499; 1,499,101
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—, water removal from, 1,422,583
—, wood stain contg., 1,422,292
—, zinc butyl xanthate from, 1,440,962
—, (secondary), mfr. of, butenes for, 1,408,320
—, —, purification of, 1,422,583
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—, cellulose ester solvent contg., 1,400,196
—, cellulose ether solvent contg., 1,411,708; 1,432,364; 1,432,374; 1,444,331; 1,479,955
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—, cellulose nitrate coating made with, 1,320,458
—, cellulose nitrate solvent contg., 1,341,710; 1,356,440; 1,398,939; 1,400,196; 1,431,900; 1,434,453; 1,434,454; 1,441,185
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—, drugs, extraction of, using, 1,504,588
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—, fat, cream, determination in of, using, 1,329,183
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—, —, milk, determination in of, using, 1,329,183
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—, —, iron salts for, 1,308,797
—, —, lead anode for, 1,308,797
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—, —, manganese compound for, 1,253,617
—, —, manganese dioxide for, 1,253,617
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—, —, ozone for, 1,253,617
—, —, perborate for, 1,253,617
—, —, permanganate for, 1,253,617
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—, —, phosphate for, 1,253,617
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—, —, sodium borate for, 1,308,797
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—, snuff made with, 1,268,135
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—, —, copper oxide as catalyst for, 1,517,968
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—, —, gasolene for, 1,365,053
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—, —, iron vanadate as catalyst for, 1,517,968
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—, —, lead electrode for, 1,365,053
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